



# MOLYDUVAL Soraja

## Sprays for the food processing industry

### MOLYDUVAL Soraja A 1500 Spray

#### lubricant for the food processing industry

A high performance very tacky synthetic lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1400 mm²/s  
Viscosity 100°C : 105 mm²/s  
Viscosity Index : 170  
Density 40°C : 860 kg/m³  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

### MOLYDUVAL Soraja A 32 Spray

#### Universal Lubricant for Food Processing Facility

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Density 40°C : 840 kg/m³  
Temperature Range : -50 -> +130 °C

### MOLYDUVAL Soraja A 460 Spray

#### lubricant for the food processing industry

A high performance very tacky synthetic lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Name : CLPHC460  
Viscosity Index : 156  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +200 °C  
Pour point : -27 °C  
Flash Point COC : 210 °C

### MOLYDUVAL Soraja A 5 Spray

#### Universal Lubricant for Food Processing Facility

A high performance synthetic versatile lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Name : CLPHC5  
Viscosity Class : 5-10 ISO-VG  
Viscosity 40°C : 7,5 mm²/s  
Viscosity 100°C : 1,2 mm²/s  
Density 40°C : 800 kg/m³  
Pour point : -73 °C  
Flash Point COC : 160 °C

### MOLYDUVAL Soraja AE 220 Spray

#### Universal spray for the food processing industry

A special synthetic oil spray for lubrication of bearings, chains, hinges, slides throughout the food industry. Is good creep properties, penetrates into narrow gaps and cracks, then lubricates and protects against corrosion. Provides excellent wear protection and good high-temperature stability based on synthetic hydrocarbons.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 240 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -30 -> 130 °C  
Pour point : -36 °C

### MOLYDUVAL Soraja AKMT Spray

#### Lubricant for Food Processing Facility

A white spray grease for the food and pharmaceutical industries, suitable for roller bearings, chains, wire ropes, hinges, joints and other sliding points. Proven especially for hard-to-reach lubrication points, even at high pressures. Particularly water-repellent

Base Fluid : paraffine oil  
Thickener : AlK  
Name : KPF2K-20  
Viscosity 40°C : 130 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +140 °C

and long-term stable. The synergistic combination of white solid lubricants contained in it protects against fretting corrosion (tribocorrosion) and increases pressure resistance and wear protection. In accordance with the Food and Feed Code, it is suitable as a lubricating grease for the food industry when used correctly. It also meets the requirements of the American NSF H1 guideline.

## MOLYDUVAL Soraja AKMZ Spray

### Lubricant for Food Processing Facility

Virtually odourless and tasteless spray grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains its consistency. And because it is shear-stable, it also maintains its consistency when it is severely worked in the bearing.

Temperature Range shortly up to : 180 °C  
Temperature Range dry lubrication, solid lubrication : 200 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade

Base Fluid : White Oil  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 265 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Water Resistance Static : 1-90 Grade  
Water Resistance Static : 0 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Soraja BAT Spray

### Lubricant for Food Processing Facility

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFHC2S-20  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : PTFE --

## MOLYDUVAL Soraja Belt Spray

### Spray for Belt Drives

Care and anti-slip spray to prevent slippage on drive belts and to secure packaging on pallets and conveyor belts in the food industry.

Basis : HV Hydrocarbon

## MOLYDUVAL Soraja BM Spray

### Lubricant for Food Processing Facility

A translucent grease for bearings, chains, wire ropes, and other industrial equipment in food industry. Very water resistant and long-term stable. Based on modern food grade base stocks in combination with a proofed thickener and additives it is absolutely food grade (USDA H1).

Base Fluid : Paraffin  
Name : KP2K-20  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BMZ Spray

### Lubricant for Food Processing Facility

A light colour, waterproofed, non dropping, multi purpose grease for bearings and gears with excellent corrosion protection and extremely good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja CL Spray

### Food Grade Cleaner Spray

A highly effective, residue-free and environmentally friendly cleaner and degreaser. Based on the following specifications of the US Food and Drug Administration (FDA)  
172.882 Synthetic isoparaffinic petroleum hydrocarbons.  
For use in froth flotation cleaning of vegetables  
178.3530 Isoparaffinic solvents  
172.884 Odorless light petroleum hydrocarbons for cleaning in direct food contact applications  
178.3620 Technical white mineral oil  
178.3650 Odorless light petroleum hydrocarbons  
and the medical use requirements of the German DAB 10.  
Users should assess their own compliance with the relevant regulation.

Base Fluid : HC  
Viscosity 25°C : 1,6 mm<sup>2</sup>/s  
Density 40°C : 750 kg/m<sup>3</sup>  
Flash Point COC : 44 °C

## MOLYDUVAL Soraja CLD Spray

### Air Pressure Spray

Compressed air spray for dust removal and for blowing out dust and dirt during repair work, e.g. on electronic assemblies, switches, insulators, clocks or seals.

Filling Volume : 400 ml

## MOLYDUVAL Soraja CUT Spray

### Cutting Fluid Spray for Food Processing Facility

A cutting agent in the spray can, used for normal to difficult metalworking in the food industry. Excellent for the machining of high-alloy steels.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150

Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja Q Spray

### Lubrication Paste for Food Processing Facility

A Food Grade paste for lubrication at extreme loads (high pressures, high temperatures). Also used as a running-in, assembly and multi purpose paste. Reduces friction, wear and seizure, assembly and disassembly goes easier. The solid lubricants protect against wear, running-in defects and offers good antifrictional properties. Mostly used for screws or nuts. Conforms to USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGE1,5  
Name : MPF1,5-30  
Temperature Range : -30 -> +1160 °C  
Dropping Point : without °C  
Fineness Ø : < 1 µm

## MOLYDUVAL Soraja REA Spray

### Universal Lubricant for Food Processing Facility

Low-viscosity, odorless and tasteless food lubricating oil based on synthetic esters, suitable as a release agent for molds and surfaces that may come into contact with foodstuffs. Applicable as a lubricant in the food, pharmaceutical or cosmetics industry, when contact of the lubricant with product or packaging may happen accidentally.

Base Fluid : Ester  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s  
Density 40°C : 950 kg/m<sup>3</sup>  
Flash Point COC : > 150 °C

## MOLYDUVAL Soraja RM 15 Spray

### Universal Lubricant for Food Processing Facility

Odorless and tasteless, food-safe paraffin oil, suitable as a release agent for shapes and surfaces that can come into contact with food. Can be used as a release agent and lubricant in the food, pharmaceutical or cosmetics industry if the lubricant can accidentally come into contact with the product or packaging.

Base Fluid : Paraffinic  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 16 mm<sup>2</sup>/s  
Viscosity 100°C : 3,6 mm<sup>2</sup>/s  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -24 °C  
Flash Point COC : 195 °C

## MOLYDUVAL Soraja RM 68 Spray

### Universal Lubricant for Food Processing Facility

Odorless and tasteless, food-safe paraffin oil, suitable as a release agent for shapes and surfaces that can come into contact with food. Can be used as a release agent and lubricant in the food, pharmaceutical or cosmetics industry if the lubricant can accidentally come into contact with the product or packaging.

Base Fluid : Min  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Density 40°C : 900 kg/m<sup>3</sup>  
Flash Point COC : > 150 °C

## MOLYDUVAL Soraja T Spray

A high performance versatile lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity Index : 130  
Density 40°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range solid lubrication : -180 - +260 °C

and wear protective additives.

Pour point : -40 °C  
Flash Point COC : 250 °C  
Content PTFE : 3 %

## MOLYDUVAL Soraja TLM Spray

### PTFE Dry Film Lubricant for Food Industry

An effective dry lubricant for applications under extreme conditions such as high pressures or high temperatures.

Basis : PTFE  
Temperature Range : -180 -> +240 °C  
Unit : 400 ml

## MOLYDUVAL Soraja XE Spray

### Synthetic Food Grade Ester Chain Oil Spray

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja XET Spray

### Synthetic High Temp Chain Fluid Food Processing Facility

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 02.12.2024





# MOLYDUVAL Soraja

## Chain Oils for Food Industry

### MOLYDUVAL Soraja XA 22 T

#### Synthetic Food Grade Chain Fluid with PTFE

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 830 kg/m<sup>3</sup>  
Temperature Range : -50 -> +180 °C  
Pour point : -57 °C  
Flash Point COC : 240 °C

### MOLYDUVAL Soraja XA 32 T

### MOLYDUVAL Soraja XE 100

#### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 960 kg/m<sup>3</sup>  
Temperature Range : -40 -> +230 °C  
Pour point : -42 °C  
Flash Point COC : 240 °C

### MOLYDUVAL Soraja XE 1000 T

#### Synthetic Food Grade High Temp Chain Fluid with PTFE

A modern, synthetic food grade chain fluid with PTFE formulated for chains in Food and Pharma Industry. In comparison to chain

Base Fluid : Ester  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 900 mm<sup>2</sup>/s

oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Viscosity Index : 190  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +230 °C  
Pour point : -45 °C  
Flash Point COC : 270 °C

### MOLYDUVAL Soraja XE 22

#### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,5 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 940 kg/m<sup>3</sup>  
Temperature Range : -40 -> +200 °C  
Pour point : -48 °C  
Flash Point COC : 260 °C

### MOLYDUVAL Soraja XE 75

#### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 75 mm<sup>2</sup>/s  
Temperature Range : -20 -> +250 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja KEPP 320

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade high temperature chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : ca. 320 ISO-VG  
Viscosity 40°C : ca. 320 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : -20 -> +280 °C  
Temperature Range shortly up to : +320 °C  
Pour point : -20 °C  
Flash Point COC : 305 °C

## MOLYDUVAL Soraja XEPP 320 N

### Synthetic Food Grade High Temp Chain Fluid

A synthetic high-temperature food-grade chain lubricant with solid lubricants, developed for chains in the food industry. Compared to conventional oil-based chain oils, it is safe, containing only ingredients approved under US food industry guidelines. It offers excellent high temperature stability and good wear protection, very good seal and plastic compatibility as well as excellent lubricity and creep properties.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm²/s  
Density 40°C : 1030 kg/m³  
Temperature Range : -20 -> +300 °C  
Temperature Range dry lubrication, solid lubrication : > 300 °C  
Pour point : -20 °C  
Flash Point COC : 305 °C

## MOLYDUVAL Soraja XMA 80

### Semi-Synthetic Food Grade Chain Fluid

Base Fluid : PAO + Min  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 80 mm²/s  
Viscosity 100°C : 10 mm²/s  
Viscosity Index : 110  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +140 °C  
Pour point : -30 °C  
Flash Point COC : > 200 °C

## MOLYDUVAL Soraja XW 20 N

### Chain Fluid for Food Industry with Boron Nitride

Boron nitride high-temperature water-based lubricating fluid for lubrication of heavy-duty chains in extreme temperature ranges (over 300 °C) when oil or grease lubrication is no longer possible. The product complies with USDA H1 for lubricants in the food industry.

Basis : Water  
Density 40°C : 1150 kg/m³  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Content solid lubricants : 20 %

## MOLYDUVAL Soraja XA 100

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 134

and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear

Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -48 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Soraja XA 100 T

### Synthetic Food Grade Chain Fluid with PTFE

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : ca 100 mm²/s  
Viscosity Index : 130  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Pour point : -35 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 1000

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 85 mm²/s  
Viscosity Index : 165  
Density 40°C : 860 kg/m³  
Temperature Range : -10 -> +200 °C  
Temperature Range shortly up to : +250 °C  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 150

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -42 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Soraja XA 1500

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1400 mm²/s  
Viscosity 100°C : 105 mm²/s  
Viscosity Index : 170  
Density 40°C : 860 kg/m³  
Temperature Range : -10 -> 200 °C  
Temperature Range shortly up to : +250 °C  
Pour point : -15 °C  
Flash Point COC : 280 °C

## MOLYDUVAL Soraja XA 22

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Viscosity Index : 130  
Density 40°C : 830 kg/m³  
Temperature Range : -50 -> +180 °C  
Pour point : -57 °C  
Flash Point COC : 240 °C

## MOLYDUVAL Soraja XA 220

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 220 T

### Synthetic Food Grade Chain Oil

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 32

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 138  
Density 40°C : 825 kg/m³  
Temperature Range : -50 -> +180 °C  
Pour point : -63 °C  
Flash Point COC : 240 °C

## MOLYDUVAL Soraja XA 46

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 8 mm²/s  
Viscosity Index : 150  
Density 40°C : 830 kg/m³  
Temperature Range : -50 -> +180 °C  
Temperature Range shortly up to : 230 °C  
Pour point : -57 °C  
Flash Point COC : 257 °C

## MOLYDUVAL Soraja XA 460

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 160  
Density 40°C : 850 kg/m³  
Pour point : -27 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 68

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Temperature Range : +230 °C  
Temperature Range : -40 -> +180 °C  
Pour point : -48 °C  
Flash Point COC : 232 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja XA 68 T

### Synthetic Food Grade Chain Fluid with PTFE

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 232 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja XA 680

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid

Base Fluid : PAO



formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Viscosity Class : 680 ISO-VG  
Viscosity 40°C : ca. 680 mm²/s  
Viscosity 100°C : 64 mm²/s  
Density 40°C : 850 kg/m³  
Temperature Range : -20 -> 200 °C  
Temperature Range shortly up to : +250 °C  
Pour point : -24 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja XA 85

### Synthetic Food Grade Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 85 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range : +230 °C  
Pour point : -48 °C  
Flash Point COC : 232 °C

## MOLYDUVAL Soraja XE 15

### Synthetic Food Grade High Temp Chain Fluid

A synthetic food grade chain and universal fluid formulated for Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. It has a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : ca. 15 mm²/s  
Viscosity Index : 175  
Density 40°C : 910 kg/m³  
Temperature Range : -60 -> +150 °C  
Pour point : -66 °C

## MOLYDUVAL Soraja XE 150

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 170  
Density 40°C : 950 kg/m³  
Temperature Range : -40 -> +230 °C  
Pour point : -45 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja XE 220

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 190  
Density 40°C : 920 kg/m³  
Temperature Range : -40 -> +230 °C  
Pour point : -45 °C  
Flash Point COC : 270 °C

wear protection.

## MOLYDUVAL Soraja XE 320

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm²/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja XE 320 T

### Synthetic Food Grade High Temp Chain Fluid with PTFE

A modern, synthetic food grade chain fluid with PTFE formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm²/s  
Viscosity Index : 190  
Density 40°C : 920 kg/m³  
Temperature Range : -40 -> +230 °C  
Pour point : -45 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja XE 46

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,5 mm²/s  
Viscosity Index : 190  
Density 40°C : 920 kg/m³  
Temperature Range : -40 -> +200 °C  
Pour point : -45 °C  
Flash Point COC : 300 °C

## MOLYDUVAL Soraja XE 460 Z

### Synthetic Food Grade High Temp Chain Fluid

A very adhesive chain lubricant for high loaded chains. Because of its good water resistance and oxidation stability it is even useful under corrosive or wet conditions. Free of mineral oil. The synthetic ester base fluids offer good temperature stability up to 250°C.

Base Fluid : Ester  
Density 40°C : 1000 kg/m³  
Temperature Range : -30 -> +300 °C  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Pour point : -10 °C  
Flash Point COC : 310 °C  
Fineness Ø : 0,35 µm

## MOLYDUVAL Soraja XE 68

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma

Base Fluid : Ester  
Viscosity Class : 68/100 ISO-VG



Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

## MOLYDUVAL Soraja XEPP 1000

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade high temperature chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Density 40°C : 940 kg/m³  
Temperature Range : -30 -> +280 °C  
Pour point : - 36 °C

## MOLYDUVAL Soraja XEPP 220

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade high temperature chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : -20 -> +280 °C  
Temperature Range shortly up to : +320 °C  
Pour point : -20 °C

## MOLYDUVAL Soraja XEPP 320 T

### Synthetic Food Grade High Temp Chain Fluid with PTFE

A modern, synthetic food grade high temperature chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 350 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -20 -> +280 °C  
Temperature Range shortly up to : +320 °C  
Pour point : -20 °C  
Flash Point COC : 305 °C

## MOLYDUVAL Soraja XEPP 350

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade high temperature chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all

Base Fluid : Ester  
Viscosity Class : ca. 320 ISO-VG  
Viscosity 40°C : ca. 320 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : -20 -> +280 °C

components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

## MOLYDUVAL Soraja XG 150

### Synthetic Food Grade High Temp Chain Fluid

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PG  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 28 mm²/s  
Viscosity Index : 210  
Density 40°C : 1000 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 300 °C  
Pour point : -36 °C

## MOLYDUVAL Soraja XG 150 N

### Synthetic Food Grade High Temp Chain Fluid

A synthetic food-grade chain lubrication oil developed and formulated for high-temperature chains in the food industry. The synthetic polyalkylene glycol base oil vaporizes almost residue-free at high temperatures and the contained white food-grade solids offer dry lubrication at very high temperatures.

Base Fluid : PAG  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 200  
Density 40°C : 1050 kg/m³  
Temperature Range : -40 -> 650 °C

## MOLYDUVAL Soraja XG 370 C

### Synthetic Food Grade High Temp Chain Fluid

A high-temperature lubricant with graphite and other synergetic solids for the lubrication of chains and bearings in extreme temperature ranges. The sliding points are protected from wear by forming a thin, temperature-resistant protective film, and friction is also reduced. The film offers very good emergency running properties in case of sudden oil loss or overheating or evaporation of the oil. The remaining solid material then forms a dry lubrication which can be lubricating up to very high temperatures and which protects the metal surface from wear and corrosion. The product has the ability to transport the solids into the areas of the bolts and bushings.

Base Fluid : PG  
Viscosity Index Base Fluid : > 200 --  
Viscosity Base Fluid, 40°C : 370 mm²/s  
Density 40°C : 1080 kg/m³  
Temperature Range dry lubrication, solid lubrication : > 600 °C  
Content solid lubricants : 5-10 %  
Fineness Ø : 0,3 µm

## MOLYDUVAL Soraja XMA 150

### Semi-Synthetic Food Grade Chain Fluid

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 17 mm²/s  
Viscosity Index : 120  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +140 °C

Pour point : -30 °C  
Flash Point COC : > 200 °C

## **MOLYDUVAL Soraja XME 100 TV**

### **Synthetic Food Grade PTFE Chain Fluid**

A modern, synthetic food grade chain fluid with PTFE formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic hydrocarbons and esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Paraffine, Ester  
Viscosity Class : ca. 68 ISO-VG  
Viscosity 40°C : ca. 68 mm²/s  
Density 40°C : 850 kg/m³  
Temperature Range film of lubricant : -20 -> +180  
Pour point : -39 °C  
Flash Point COC : 70 °C

## **MOLYDUVAL Soraja XP 460 N**

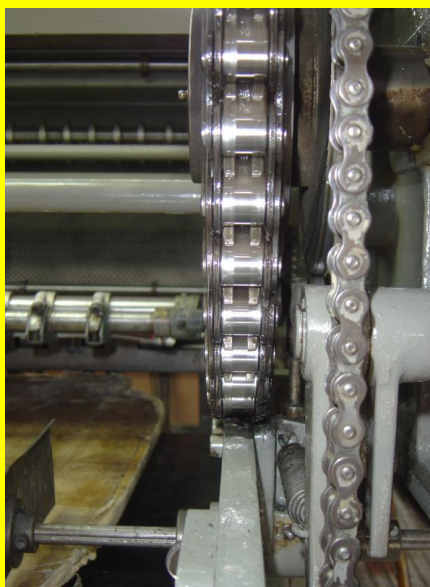
### **Synthetic Food Grade Ester Chain Oil**

A very adhesive chain lubricant for high loaded chains. Because of its good water resistance and oxidation stability it is even useful under corrosive or wet conditions. Free of mineral oil. The synthetic ester base fluids offer good temperature stability up to 250°C.

Base Fluid : Ester  
Density 40°C : 1000 kg/m³  
Temperature Range : -30 -> +300 °C  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Pour point : -10 °C  
Flash Point COC : 310 °C  
Fineness Ø : 0,35 µm

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Sekorex Synthetic Chain Fluids

## MOLYDUVAL Sekorex A 22 OH

### Synthetic Low & High Temperature-Chain Lubricant

A 100% synthetic PAO based, very high treated lubrication oil for low and high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Contains special corrosion protective additives for protection in humid surroundings.

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,1 mm²/s  
Viscosity Index : 140  
Density 40°C : 880 kg/m³  
Temperature Range : -50 -> +180 °C  
Pour point : -63 °C  
Flash Point COC : 240 °C

excellent wear protection, good adhesion to the chain and good corrosion protection. Forms a thin, thermally stable lubricating film, which smooths the roughness peaks in the micro range at high temperatures. Friction is reduced and hydrodynamics are improved. At very high temperatures, residue formation is relatively low and the evaporation rate is low. Temperature Range : -15 -> +230 °C

## MOLYDUVAL Sekorex EM 250

### Synthetic High Temperature Chain Oil

A temperature-stable, synthetic lubricating oil with strong anti-oxidation additives for chains in high temperature ranges. In addition to good high temperature stability, it offers excellent wear protection, good adhesion to the chain and good corrosion protection. Forms a thin, thermally stable lubricating film, which smooths the roughness peaks in the micro range at high temperatures. Friction is reduced and hydrodynamics are improved. At very high temperatures, residue formation is relatively low and the evaporation rate is low.

Basis : Ester  
Viscosity 100°C : 23,7 mm²/s  
Viscosity Index : 119  
Density 40°C : 930 kg/m³  
Temperature Range : -15 -> +250 °C

## MOLYDUVAL Sekorex EM 320

### Synthetic High Temperature Chain Oil

A temperature-stable, synthetic lubricating oil with strong anti-oxidation additives for chains in high temperature ranges. In addition to good high temperature stability, it offers excellent wear protection, good adhesion to the chain and good corrosion protection. Forms a thin, thermally stable lubricating film, which smooths the roughness peaks in the micro range at high temperatures. Friction is reduced and hydrodynamics are improved. At very high temperatures, residue formation is relatively low and the evaporation rate is low.

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 120  
Density 40°C : 940 kg/m³  
Temperature Range : -15 -> +250 °C

## MOLYDUVAL Sekorex EM 250 LC

### Synthetic High Temperature Chain Oil

A temperature-stable, synthetic lubricating oil with strong anti-oxidation additives for chains in high temperature ranges. In addition to good high temperature stability, it offers

Basis : Ester  
Viscosity 100°C : 18,4 mm²/s  
Viscosity Index : 92  
Density 40°C : 930 kg/m³

## MOLYDUVAL Sekorex EM 320 LC

### Synthetic High Temperature Chain Oil

A temperature-stable, synthetic lubricating oil with strong anti-oxidation additives for chains in high temperature ranges. In addition to good high temperature stability, it offers excellent wear protection, good adhesion to the chain and good corrosion protection. Forms a thin, thermally stable lubricating

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Density 40°C : 930 kg/m³  
Temperature Range : -15 -> +230 °C

film, which smooths the roughness peaks in the micro range at high temperatures. Friction is reduced and hydrodynamics are improved. At very high temperatures, residue formation is relatively low and the evaporation rate is low.

## MOLYDUVAL Sekorex EP 1000 L

### Synthetic High Temperature Chain Lubricant

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : ca. 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 105 mm²/s  
Viscosity Index : 175  
Density 40°C : 955 kg/m³  
Temperature Range : -25 -> 250 °C  
Flash Point COC : 290 °C  
Pour point : -27 °C

## MOLYDUVAL Sekorex EP 80 D

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 85 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 125  
Density 40°C : 960 kg/m³  
Temperature Range : -40 - +260 °C  
Flash Point COC : 280 °C  
Pour point : -40 °C

## MOLYDUVAL Sekorex EPP 100 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 120  
Density 40°C : 970 kg/m³  
Temperature Range : -20 -> +290 °C  
Flash Point COC : 280 °C  
Pour point : -24 °C

## MOLYDUVAL Sekorex ET 1500 R

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, high treated heavy viscosity lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even

Color : red  
Basis : Ester  
Viscosity 40°C : 1500 mm²/s  
Viscosity 100°C : 83 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : 0°C -> +260°C °C

suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

## MOLYDUVAL Sekorex ET 320 Y

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 111  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex MP 20 TM

### Hich Temperature Tacky Chain Oil

High-viscosity chain fluid with molybdenum disulphide for high temperatures. Forms only relatively small deposits in the highest temperature range. Offers excellent water resistance and good wear protection. Forms a stable lubricating film that reduces friction and improves hydrodynamics. In addition to its suitability for many types of chains, it can also be used for low-speed bearings, gears, guides and sliding surfaces.

Base Fluid : HC Polymers  
Viscosity 40°C : 19000 mm²/s  
Viscosity 100°C : 640 mm²/s  
Density 40°C : 910 kg/m³  
Temperature Range : - -> +180 °C  
Temperature Range solid lubrication : 300 °C  
Pour point : -9 °C  
Flash Point COC : > 160 °C

## MOLYDUVAL Sekorex A 32 OH

### Synthetic Low & High Temperature-Chain Lubricant

A 100% synthetic PAO based, very high treated lubrication oil for low and high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Contains special corrosion protective additives for protection in humid surroundings.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 138  
Density 40°C : 830 kg/m³  
Temperature Range : -50 -> +180 °C  
Pour point : -63 °C  
Flash Point COC : 240 °C

## MOLYDUVAL Sekorex BA 90 CN

### High Temperature Chain Lubricant

A viscous high-temperature suspension for the lubrication of chains at very high temperatures. Base fluid is a synthetic oil leaving low residues at high temperatures. A synergistic combination of solid lubricants ensures the lubrication effect within the wide range of temperatures.

Base Fluid : Syn  
Thickener : anorganic  
Density 40°C : ca. 1200 kg/m³  
Temperature Range : -30 -> +1000 °C

## MOLYDUVAL Sekorex CHA 40 ZV

### Synthetic Chain Lubricant with Solid Lubricants

A very adhesive chain grease spray for

Base Fluid : PAO, Ester



high loaded chains. Because of its good water resistance and oxidation stability it is even useful under corrosive or wet conditions. Free of mineral oil. The contained synthetic ester fluids offer good creeping properties and good temperature stability. Beyond the maximum temperature there will be emergency lubrication by the white solid lubricants. The product contains solvent for easier application.

## MOLYDUVAL Sekorex EC 1000 L

### Synthetic Chain Oil

A 100% synthetic polyol ester based, high AO treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it offers very good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at highest temperatures. It forms only less residues, and its evaporation rates are low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Density 40°C : 850 kg/m<sup>3</sup>  
Temperature Range : -30 -> +250 °C  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Flash Point COC : ca. 70 °C  
Fineness Ø : 0,35 µm

Basis : Ester  
Viscosity Class : ca. 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity 100°C : 105 mm<sup>2</sup>/s  
Viscosity Index : 175  
Density 40°C : 955 kg/m<sup>3</sup>  
Temperature Range : -25 -> 250 °C  
Flash Point COC : 290 °C  
Pour point : -27 °C

## MOLYDUVAL Sekorex EC 320 P

### Synthetic High Temperature Chain Oil

A 100% synthetic complex ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Density 40°C : 990 kg/m<sup>3</sup>  
Temperature Range : -20 -> +260 °C  
Flash Point COC : 300 °C  
Pour point : -30 °C

## MOLYDUVAL Sekorex EC 460 P

### Synthetic High Temperature Chain Oil

A 100% synthetic complex ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity 100°C : 43 mm<sup>2</sup>/s  
Density 40°C : 990 kg/m<sup>3</sup>  
Temperature Range : -20 -> +260 °C  
Flash Point COC : 300 °C  
Pour point : -24 °C

## MOLYDUVAL Sekorex ECA 320

### Synthetic High Temperature Chain Lubricant

Based on a combination of very high temperature stable synthetic esters and synthetic polyalphaolefines this chain oil may

Basis : Ester + PAO  
Viscosity 40°C : 260 mm<sup>2</sup>/s  
Viscosity 100°C : 30 mm<sup>2</sup>/s

be used at very high temperatures. It is high treated with anti oxidative, extreme pressure and anti-wear additives. Besides of itBased on a combination of very high temperature stable synthetic esters and synthetic polyalphaolefines this chain oil may be used at very high temperatures. It is high treated with anti oxidative, extreme pressure and anti-wear additives. Besides of its excellent high temperature stability it offers good wear protection and good corrosion protection. Qualified for chains but even suitable for bearings, slides and sliding surfaces at high temperatures, may be applied with spray and metering systems.

The product is usually compatible with other high temperature ester based chain oils, cleaning of the chain oil pump is unnecessary. In case of very high temperatures it does not form lacquer-like residues when properly applied, and the evaporation rates are very low.

Viscosity Index : 150  
Density 40°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +250 °C  
Flash Point COC : 250 °C  
Pour point : < -30 °C

## MOLYDUVAL Sekorex ED 100 M

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 970 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 280 °C  
Pour point : -33 °C

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS<sub>2</sub>).

## MOLYDUVAL Sekorex ED 220

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 18 mm<sup>2</sup>/s  
Viscosity Index : 90  
Density 40°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ED 32 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high

Base Fluid : DiEster  
Viscosity 40°C : 28,2 mm<sup>2</sup>/s  
Viscosity 100°C : 5,4 mm<sup>2</sup>/s

temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Viscosity Index : 135  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Pour point : -57 °C  
Flash Point COC : 240 °C

## MOLYDUVAL Sekorex ED 46 CM

### Synthetic Chain Lubricant with MoS2

A 100% synthetic PAO based, very high treated lubrication oil for heavy duty chains. Offers excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high loads. Contains graphite and molybdenum disulphide.

Base Fluid : PAO  
Name : CLPSKW46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -54 °C  
Flash Point COC : 240 °C

## MOLYDUVAL Sekorex EDA 100 M

### Synthetic High Temperature Chain Oil

A synthetic oil based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester, synth. KW Öl  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +260 °C  
Flash Point COC : 200 °C  
Pour point : -40 °C

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex EDA 15 M

### Low Viscosity Synthetic Chain Oil

A pure synthetic high treated low viscosity lubrication oil for chains. Besides of it's excellent low and high temperature stability it offers excellent wear protection and good corrosion protection.

Base Fluid : PAO + Ester  
Name : EHCPF15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -60 -> +150 °C  
Pour point : -69 °C  
Flash Point COC : 200 °C

Qualified even for smaller chains. It penetrates and lubricates close clearings, pins and bushings and offers then a long lasting film for less wear and good corrosion protection.

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex EDA 150 G

### Synthetic High Temperature Chain Lubricant

A 100% synthetic ester based, very high treated lubrication oil for high temperature

Basis : Ester  
Viscosity Class : 150 ISO-VG

chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Viscosity Index : 140  
Density 40°C : 890 kg/m<sup>3</sup>  
Temperature Range : -25 -> +260 °C  
Flash Point COC : 260 °C  
Pour point : -30 °C

## MOLYDUVAL Sekorex EDA 220 G

### Synthetic High Temperature Chain Lubricant

Based on a combination of synthetic esters and polyalphaolefines, ist is high treated for high temperature chains. Besides of it's excellent high temperature stability it guarantees good wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester + SHC  
Viscosity Class : 220 ISO-VG  
Viscosity Index : 140  
Density 40°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -40 °C

## MOLYDUVAL Sekorex EDA 220 G

### Synthetic High Temperature Chain Lubricant

Based on a combination of synthetic esters and polyalphaolefines, ist is high treated for high temperature chains. Besides of it's excellent high temperature stability it guarantees good wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester + SHC  
Viscosity Class : 220 ISO-VG  
Viscosity Index : 140  
Density 40°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -40 °C

## MOLYDUVAL Sekorex EDA 300 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 290 mm<sup>2</sup>/s  
Viscosity 100°C : 25 mm<sup>2</sup>/s  
Viscosity Index : 160  
Density 40°C : 890 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 260 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex EDA 320 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of

Color : green  
Basis : Ester, PAO  
Viscosity 40°C : 300 mm<sup>2</sup>/s  
Viscosity 100°C : 40 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 260 °C

very high temperatures it forms only less residues, and evaporates low.

Pour point : -33 °C

## MOLYDUVAL Sekorex EDA 68

### Synthetic High Temperature Chain Lubricant

Based on a combination of synthetic esters and polyalphaolefines, it is high treated for high temperature chains. Besides of its excellent high temperature stability it guarantees good wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester + PAO  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 10 mm²/s  
Viscosity Index : 145  
Density 40°C : 890 kg/m³  
Temperature Range : -40 -> +200 °C  
Flash Point COC : 220 °C  
Pour point : -42 °C

## MOLYDUVAL Sekorex EP 100 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 15,0 mm²/s  
Viscosity Index : 148  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -36 °C

## MOLYDUVAL Sekorex EP 150 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 150  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex EP 220 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 150  
Density 40°C : 970 kg/m³

suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Temperature Range : -20 -> 270 °C  
Flash Point COC : 280 °C  
Pour point : -27 °C

## MOLYDUVAL Sekorex EP 250 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 220/320 ISO-VG  
Viscosity 40°C : 250 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 125  
Density 40°C : 960 kg/m³  
Temperature Range : -40 -> +260 °C  
Flash Point COC : 280 °C  
Pour point : -40 °C

## MOLYDUVAL Sekorex EP 260 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity 40°C : 260 mm²/s  
Viscosity Index : 152  
Density 40°C : 950 kg/m³  
Temperature Range : -20 -> 270 °C  
Flash Point COC : 280 °C  
Pour point : -24 °C

## MOLYDUVAL Sekorex EP 32 L

### Synthetic High Temperature Chain Oil

A very high quality synthetic chain oil based on a special neopolyol ester based on pentaerithritol. These esters offer much better lubricity than comparable di- or tri-esters. Due to the naturally good lubricity of these esters, many residue-forming additives can be dispensed with. Low evaporation and minimal residue formation make these esters ideal for high temperature applications. The product offers very good wear and corrosion protection.

Basis : Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 150  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -36 °C

## MOLYDUVAL Sekorex EP 320 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high

Basis : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s



temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Viscosity 100°C : 34 mm²/s  
Viscosity Index : 152  
Density 40°C : 950 kg/m³  
Temperature Range : -20 -> 270 °C  
Flash Point COC : 280 °C  
Pour point : -24 °C

## MOLYDUVAL Sekorex EP 46 L

### Synthetic High Temperature Chain Oil

A very high quality synthetic chain oil based on a special neopolyol ester based on pentaerithritol. These esters offer much better lubricity than comparable di- or tri-esters. Due to the naturally good lubricity of these esters, many residue-forming additives can be dispensed with. Low evaporation and minimal residue formation make these esters ideal for high temperature applications. The product offers very good wear and corrosion protection.

Basis : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 150  
Density 40°C : 990 kg/m³  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -36 °C

## MOLYDUVAL Sekorex EP 68 L

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : 150  
Density 40°C : 980 kg/m³  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 250 °C  
Pour point : -36 °C

## MOLYDUVAL Sekorex EPA 250 L

### Synthetic High Temperature Chain Oil

A temperature-stable, synthetic lubricating oil with heavy additives for continuous belt presses in the timber industry. In addition to excellent high-temperature stability, it offers outstanding wear protection, good creeping properties, good corrosion protection and low evaporation rates. Forms a thin, thermally stable lubricating film that smooths out roughness peaks in the micro range at high temperatures. Friction is reduced and hydrodynamics improved. At very high temperatures, the formation of residues is relatively small.

Basis : Ester + SHC  
Viscosity 40°C : 250 mm²/s  
Viscosity 100°C : 28 mm²/s  
Viscosity Index : 150  
Density 40°C : 910 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : > 260 °C  
Pour point : - 33 °C

## MOLYDUVAL Sekorex EPA 320

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester, PAO  
Viscosity 40°C : 300 mm²/s  
Viscosity 100°C : 40 mm²/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 260 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex EPM 46

### Waterproof Tacky Chain Lubricant

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Min, Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 130  
Density 40°C : 940 kg/m³  
Temperature Range : -30 -> 180 °C  
Pour point : -30 °C  
Flash Point COC : ca. 200 °C

## MOLYDUVAL Sekorex EPP 100 T

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 120  
Density 40°C : 970 kg/m³  
Temperature Range : -20 -> +290 °C  
Flash Point COC : 280 °C  
Pour point : -24 °C

## MOLYDUVAL Sekorex EPP 130 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature ester base fluids unavailable elsewhere.

Basis : DiPE-Ester  
Viscosity 40°C : 130-150 mm²/s  
Viscosity 100°C : 18,5 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -40 -> 270 °C  
Flash Point COC : 300 °C  
Pour point : -42 °C



## MOLYDUVAL Sekorex EPP 150 L

### Synthetic High Temperature Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : DiPE-Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Density 40°C : 990 kg/m³  
Temperature Range : -40 -> 270 °C  
Flash Point COC : 300 °C  
Pour point : -42 °C

## MOLYDUVAL Sekorex EPP 220 G

### Synthetic High Temperature Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : DiPE-Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 18,8 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -40 -> 270 °C  
Flash Point COC : 300 °C  
Pour point : -42 °C

## MOLYDUVAL Sekorex EPP 320 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 26 mm²/s  
Viscosity Index : 120  
Density 40°C : 970 kg/m³  
Temperature Range : -15 -> +290 °C  
Flash Point COC : 290 °C  
Pour point : -21 °C

## MOLYDUVAL Sekorex EQ 130 ML

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues,

Basis : DiPE-Ester  
Viscosity 40°C : 130-150 mm²/s  
Viscosity 100°C : 18,5 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -40 -> 270 °C  
Flash Point COC : 300 °C  
Pour point : -42 °C

and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature ester base fluids unavailable elsewhere.

## MOLYDUVAL Sekorex EQ 150 HF

### Synthetic High Temperature Chain Oil

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Polyol Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -10 -> +280 °C  
Flash Point COC : 290 °C  
Pour point : -15 °C

## MOLYDUVAL Sekorex ET 100 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 90  
Density 40°C : 970 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 260 °C  
Pour point : -45 °C

## MOLYDUVAL Sekorex ET 100 P

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : > 200 °C  
Pour point : -45 °C

## MOLYDUVAL Sekorex ET 100 T

### High Temp Chain Lubricant with PTFE

A 100% synthetic ester based, high treated heavy viscosity lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 150  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : > 200 °C

surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Pour point : -45 °C

## MOLYDUVAL Sekorex ET 1000 M

### High Temp Chain Lubricant with MoS2

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : ca 1000 mm²/s  
Density 40°C : 920 kg/m³

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex ET 1000 T

### Synthetic High Temperature Chain Oil with PTFE

A 100% synthetic ester based, high treated heavy viscosity lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 1000 mm²/s  
Density 40°C : 970 kg/m³

## MOLYDUVAL Sekorex ET 1000 TV

### Synthetic High Temperature Chain Oil with PTFE

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : ca. 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 150  
Viscosity Base Fluid, 40°C : ca 1000 mm²/s  
Density 40°C : 930 kg/m³  
Temperature Range : -10 -> 250 °C  
Flash Point COC : 110 °C  
Pour point : -9 °C

## MOLYDUVAL Sekorex ET 140 P

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion

Basis : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 90

protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Density 40°C : 970 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 240 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ET 150 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 90  
Density 40°C : 970 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 240 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ET 150 M

### High Temp Chain Lubricant with MoS2

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 89  
Density 40°C : 970 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -33 °C

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex ET 1500 P

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, high treated heavy viscosity lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 1500 mm²/s  
Viscosity 100°C : 83 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : 0°C -> +260°C °C

## MOLYDUVAL Sekorex ET 180 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding

Basis : Ester  
Viscosity Class : 150/220 ISO-VG  
Viscosity 40°C : 180 mm²/s  
Density 40°C : 970 kg/m³  
Temperature Range : -20 -> +240 °C  
Flash Point COC : > 260 °C  
Pour point : -24 °C

surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

## MOLYDUVAL Sekorex ET 220 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 90  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ET 220 M

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +260 °C

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex ET 220 P

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +260 °C

## MOLYDUVAL Sekorex ET 220 T

### Synthetic High Temperature Chain Oil with PTFE

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 90  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

residues, and evaporates low.

## MOLYDUVAL Sekorex ET 280 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 280 mm²/s  
Viscosity Index : 95  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ET 300 P

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 300 mm²/s  
Viscosity Index : 25  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 280 °C

## MOLYDUVAL Sekorex ET 320 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 111  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ET 320 M

### High Temp Chain Lubricant with MoS2

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 111  
Density 40°C : 950 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).



## MOLYDUVAL Sekorex ET 46 L

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Base Fluid : Tri-Ester  
Name : ELPT46  
Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 55 mm²/s  
Viscosity 100°C : 8 mm²/s  
Viscosity Index : 120  
Density 40°C : 970 kg/m³  
Temperature Range : -40 -> +250 °C  
Pour point : -45 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Sekorex ET 460 P

### Synthetic High Temperature Chain Lubricant

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 35 mm²/s  
Viscosity Index : 115  
Density 40°C : 940 kg/m³  
Temperature Range : -20 -> 260 °C  
Temperature Range shortly up to : 290 °C

## MOLYDUVAL Sekorex ET 4600 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, high treated heavy viscosity lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : ester  
Viscosity Class : 4600 ISO-VG  
Viscosity 40°C : 4600 mm²/s  
Density 40°C : 890 kg/m³

## MOLYDUVAL Sekorex ET 680 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Basis : Ester  
Viscosity 40°C : 680 mm²/s  
Viscosity 40°C : 680 mm²/s  
Density 40°C : 940 kg/m³  
Density 40°C : 930 kg/m³

## MOLYDUVAL Sekorex ET 680 G

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature

Basis : Ester  
Basis : Ester

chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Viscosity 40°C : 680 mm²/s  
Viscosity 40°C : 680 mm²/s  
Density 40°C : 940 kg/m³  
Density 40°C : 930 kg/m³

## MOLYDUVAL Sekorex ET 680 M

### High Temp Chain Lubricant with MoS2

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 680 mm²/s  
Viscosity 100°C : 48 mm²/s  
Viscosity Index : 121  
Density 40°C : 950 kg/m³

For better wear protection this lubricants is added with an effective content of molybdenum disulfide (MoS2).

## MOLYDUVAL Sekorex ETA 320

### Synthetic High Temperature Chain Lubricant

Based on a combination of synthetic esters and polyalphaolefines, ist is high treated for high temperature chains. Besides of it's excellent high temperature stability it guarantees good wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester + PAO  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 30 mm²/s  
Viscosity Index : 150  
Density 40°C : 900 kg/m³  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 265 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex ETP 4600 X

### Synthetic High Temperature Chain Lubricant

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 4600 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Temperature Range : -30 -> +260 °C

## MOLYDUVAL Sekorex G 100 C

### Synthetic Graphite Chain Fluid

A high temperature fluid with graphite for lubrication of chains, for antifriction and sliding bearings, even for this kind of bearings and chains, which are very heavy

Base Fluid : PG  
Name : PGPF100  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 18 mm²/s



treated and stressed and / or where high operating temperatures may exist.

Viscosity Index : 191  
Density 40°C : 1040 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 500 °C  
Flash Point PMCC : 240 °C

## MOLYDUVAL Sekorex G 100 M

### Synthetic MoS<sub>2</sub> Chain Fluids

A high temperature fluid with MoS<sub>2</sub> for lubrication of chains, for antifriction and sliding bearings, even for this kind of bearings and chains, which are very heavy treated and stressed and / or where high operating temperatures may exist.

Base Fluid : PG  
Name : PGPF100  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 18 mm<sup>2</sup>/s  
Viscosity Index : 191  
Density 40°C : 1030 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Flash Point PMCC : 240 °C  
Fineness Ø : 0,3 µm

## MOLYDUVAL Sekorex G 220 C

### Synthetic Graphite Chain Fluid

A high temperature fluid with graphite for lubrication of chains, for antifriction and sliding bearings, even for this kind of bearings and chains, which are very heavy treated and stressed and / or where high operating temperatures may exist.

Base Fluid : PG  
Viscosity Class : 220/320 ISO-VG  
Viscosity Index Base Fluid : 200 --  
Viscosity Base Fluid, 40°C : 240 mm<sup>2</sup>/s  
Density 40°C : 1020 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Fineness Ø : 0,3 µm

## MOLYDUVAL Sekorex G 220 CM

### Synthetic MoS<sub>2</sub> Chain Fluids

A high temperature fluid with MoS<sub>2</sub> for lubrication of chains, for antifriction and sliding bearings, even for this kind of bearings and chains, which are very heavy treated and stressed and / or where high operating temperatures may exist.

Base Fluid : PG  
Viscosity Index : 191  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 40°C : 1050 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Flash Point PMCC : 240 °C  
Fineness Ø : 0,3 µm

## MOLYDUVAL Sekorex IL

### Synthetic High Temperature Oil

A synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 5-20 mm<sup>2</sup>/s  
Viscosity Index : 140  
Density 40°C : 860 kg/m<sup>3</sup>

## MOLYDUVAL Sekorex IS

### Synthetic High Temperature Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature bearings. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 18 mm<sup>2</sup>/s  
Viscosity Index : 90  
Density 40°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C  
Flash Point COC : 270 °C  
Pour point : -33 °C

## MOLYDUVAL Sekorex PLX

### Synthetic Chain Lubricant with MoS<sub>2</sub>

An very adhesive chain lubricant for very high loaded, slow running chains. Because of its good water resistance and oxidation stability it is even useful under corrosive conditions. It is a black grease containing the solid molybdenum disulphide for reduced friction and emergency run properties.

Base Fluid : Syn  
Temperature Range : -25 -> + 200 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C

## MOLYDUVAL Sekorex POE 100

### Synthetic Chain Lubricant

Basis : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 14 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -36 °C

## MOLYDUVAL Sekorex W 20 X

### Chain Lubrication Wax

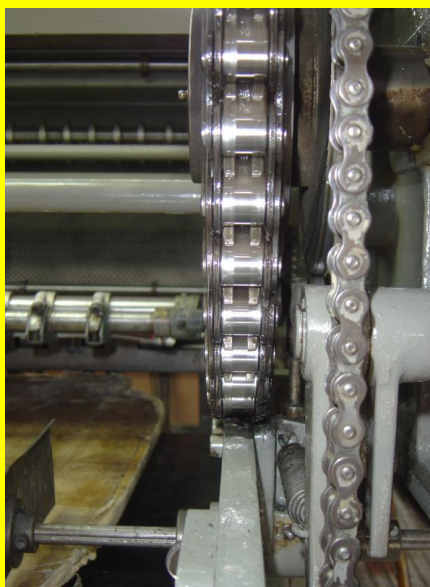
Waxy water-based lubricant for chains, screws and other small parts that are to be protected or lubricated with a dry film of wax. Adheres well to the parts and protects against wear and corrosion. The remaining parts according to the evaporation of the water film is almost dry, so that chains running in very humid or dusty conditions, can be successfully lubricated and protected.

Base Fluid : Water  
Content additives : 25 %

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Sekorex Mineral Chain Oils

## MOLYDUVAL Sekorex M 1000 LC Waterproofed Tacky Chain Lubricant

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : ca. 1000 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -10 -> ca. 150 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Sekorex M 22 HZ Waterproof Tacky Chain Lubricant

Base Fluid : Min + Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 4  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -25 -> 150 °C  
Pour point : -30 °C  
Flash Point COC : > 130 °C

## MOLYDUVAL Sekorex MP 6800 HZ Waterproofed Tacky Chain Oil

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral, Polymers  
Viscosity 40°C : 6800 mm<sup>2</sup>/s  
Viscosity 100°C : 430 mm<sup>2</sup>/s  
Viscosity Index : 230  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -5 -> +120 °C  
Pour point : -9 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Sekorex MP 6800 MHZ Tacky Chain Lubricant with MoS<sub>2</sub>

Base Fluid : Min  
Name : CLPF6800  
Viscosity Class : 6800 ISO-VG  
Density 40°C : 910 kg/m<sup>3</sup>  
Temperature Range : -5 -> +1000 °C  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Sekorex M 100 HZ Waterproofed Tacky Chain Lubricant

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 11 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> 150 °C  
Pour point : -20 °C  
Flash Point COC : ca.200 °C

## MOLYDUVAL Sekorex M 100 MHZ Waterproofed Tacky Chain Oil with MoS<sub>2</sub>

High treated tacky low viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion and molybdenum disulphide for reduced friction.

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -25 -> 140 °C  
Pour point : -30 °C  
Flash Point COC : ca.200 °C

## **MOLYDUVAL Sekorex M 1000**

### **Waterproofed Tacky Chain Lubricant**

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : ca. 1000 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -10 -> ca. 150 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Sekorex M 1000 C**

### **Waterproofed Tacky Chain Oil with Graphite**

High treated tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion and graphite for reduced friction.

Base Fluid : Min  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -15 -> 140 °C  
Pour point : -20 °C  
Flash Point COC : > 200 °C  
Content graphite : 5 %

## **MOLYDUVAL Sekorex M 1000 HZ**

### **Waterproofed Tacky Chain Lubricant**

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity 100°C : 67 mm<sup>2</sup>/s  
Viscosity Index : 125  
Temperature Range : -10 -> ca.150 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Sekorex M 1000 VCL**

### **Waterproofed Tacky Chain Lubricant**

A high treated very tacky water proofed lubrication oil chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Min + Syn  
Viscosity Base Fluid, 40°C : 1000 mm<sup>2</sup>/s  
Density 40°C : 830 kg/m<sup>3</sup>  
Temperature Range : -20 -> 150 °C  
Flash Point COC : 70 °C

Is diluted with a special creeping active solvent, it penetrates good into gaps and reduces wear.

## **MOLYDUVAL Sekorex M 15 HZV**

### **Waterproofed Tacky Chain Lubricant**

A very tacky low viscous lubrication oil for chains. Because of its good creeping characteristics it penetrates good into the chain bolts, reduces wear and protects against corrosion.

Base Fluid : Min/Ester  
Viscosity 40°C : ca. 15 mm<sup>2</sup>/s  
Density : 0,87 kg/m<sup>3</sup>  
Temperature Range : -30 -> +100 °C  
Pour point : -40 °C  
Flash Point PMCC : ca. 120 °C

## **MOLYDUVAL Sekorex M 150 HZ**

### **Waterproofed Tacky Chain Lubricant**

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> 150 °C  
Pour point : -20 °C  
Flash Point COC : ca.200 °C

## **MOLYDUVAL Sekorex M 150 MHZ**

### **Waterproofed Tacky Chain Oil with MoS2**

High treated tacky low viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion and molybdenum disulphide for reduced friction.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -25 -> 140 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Pour point : -30 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Sekorex M 22 MHZ**

### **Tacky Chain Lubricant with MoS2**

Base Fluid : Min  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> 120 °C  
Pour point : -30 °C

## **MOLYDUVAL Sekorex M 320 HZ**

### **Waterproofed Tacky Chain Oil**

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : 320 ISO-VG  
Viscosity Index : 100  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20->150 °C  
Pour point : -20 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Sekorex M 46 HZ**

### **Waterproof Tacky Chain Lubricant**

Semi-synthetic chain fluid with particularly strong additives. Offers excellent lubricity in addition to excellent water resistance and excellent wear protection. Forms a stable lubricating film on metal surfaces that reduces friction and improves hydrodynamics. In addition to its suitability for many types of chains, it can also be used for bearings, gears, guides and sliding surfaces, especially when the risk of dripping needs to be reduced.

Base Fluid : Min  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> 150 °C  
Pour point : -27 °C  
Flash Point COC : ca. 200 °C



## **MOLYDUVAL Sekorex M 460 HZ**

### **Waterproofed Tacky Chain Oil**

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Min  
Viscosity Class : 460 ISO-VG  
Viscosity Index : 100  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -10 -> 150 °C  
Pour point : -20 °C  
Flash Point COC : 220 °C

Pour point : -12 °C  
Flash Point COC : 190 °C

## **MOLYDUVAL Sekorex M 460 MM**

### **Tacky Chain Lubricant with MoS<sub>2</sub>**

High treated tacky low viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion and molybdenum disulphide for reduced friction.

Base Fluid : Min  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 940 kg/m<sup>3</sup>  
Temperature Range : -25 -> 140 °C  
Pour point : -30 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Sekorex M 680 HZ**

### **Waterproof Tacky Chain Lubricant**

High treated very tacky lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : ca.680 ISO-VG  
Viscosity Index : 110  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -10 -> 150 °C  
Pour point : -12 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Sekorex MP 2200 HZ**

### **Waterproofed Tacky Chain Lubricant**

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral + Syn  
Viscosity Class : 2200 ISO-VG  
Viscosity Index : 125  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -10 -> ca.150 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Sekorex MP 4600 H**

### **Waterproofed Tacky Chain Oil**

High treated very tacky high viscosity lubrication oil for many kinds of chains, especially for outside door chains. Contains a high percentage of synthetic tackifiers for better adhesion.

Base Fluid : Mineral, Polymers  
Viscosity 40°C : 4600 mm<sup>2</sup>/s  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -5 -> +120 °C  
Pour point : -12 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Sekorex MP 4600 MHZ**

### **Tacky Chain Lubricant with MoS<sub>2</sub>**

Base Fluid : Min  
Density 40°C : 1150 kg/m<sup>3</sup>  
Temperature Range : -5 -> ca. +180 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Soraja

## Heat Transfer Fluids for Food Industry

### MOLYDUVAL Soraja WM 22

#### Heat Transfer Fluid for Food Industry

A heat transfer fluid containing synthetic additives blended in a stable white oil base conforming to USDA regulations. Based on modern superclean white oils it's miscible with mineral oils, has good seal compatibility, and a top high temperature stability.

Base Fluid : Paraffin  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 102  
Density 40°C : 860 kg/m<sup>3</sup>  
Temperature Range : -10 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : 210 °C

### MOLYDUVAL Soraja WM 32

#### Heat Transfer Fluid for Food Industry

A heat transfer fluid containing synthetic additives blended in a stable white oil base conforming to USDA regulations. Based on modern superclean white oils it's miscible with mineral oils, has good seal compatibility, and a top high temperature stability.

Base Fluid : Paraffin  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 5,6 mm<sup>2</sup>/s  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 210 °C  
Bulk Temperature max : 300 °C  
Film Temperature max : 330 °C

### MOLYDUVAL Soraja WMHC 32

#### Heat Transfer Fluid for Food Industry

A fully synthetic heat transfer fluid containing synthetic additives blended in a stable synthetic oil base conforming to USDA regulations. Based on modern Food - grade and USDA H1 cleared hydrocrack base

Base Fluid : HC  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 35 mm<sup>2</sup>/s  
Viscosity 100°C : 5,8 mm<sup>2</sup>/s  
Density 40°C : 860 kg/m<sup>3</sup>

fluids it's miscible with mineral oils, has good seal compatibility, and a top high temperature stability.

Pour point : -15 °C  
Flash Point COC : 220 °C  
initial boiling range : > 340 °C  
Bulk Temperature max : 325 °C  
Film Temperature max : 345 °C

### MOLYDUVAL Soraja WT 22

#### Heat Transfer Fluid for Food Industry

A fully synthetic heat transfer fluid containing synthetic additives blended in a stable synthetic oil base conforming to USDA regulations. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO) it's miscible with mineral oils, has good seal compatibility, and a top high temperature stability.

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,6 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 830 kg/m<sup>3</sup>  
Pour point : -57 °C  
Flash Point COC : 250 °C

The inherent (Newtonian) high Viscosity Index (VI) of the PAOs negates the addition of VI improver. This results in high shear stability (no viscosity loss), and a longer life oil. Non-corrosive and compatible with petroleum products and most sealing materials.

### MOLYDUVAL Soraja WT 32

#### Heat Transfer Fluid for Food Industry

A fully synthetic heat transfer fluid containing synthetic additives blended in a stable synthetic oil base conforming to USDA regulations. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 133

(PAO) it's miscible with mineral oils, has good seal compatibility, and a top high temperature stability.

Density 40°C : 825 kg/m<sup>3</sup>  
Pour point : -63 °C  
Foam Properties : 0/0/0 0/0/0

The inherent (Newtonian) high Viscosity Index (VI) of the PAOs negates the addition of VI improver. This results in high shear stability (no viscosity loss), and a longer life oil.  
Non-corrosive and compatible with petroleum products and most sealing materials.

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.  
All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Soraja CUT

## MOLYDUVAL Soraja CUT 1000

### Cutting Fluid for Food Industry

An strong treated food grade heavy duty cutting fluid for medium to difficult metal working operations. Especially qualified for working processes like broaching and cuttings of hard steels in food industry or for producing products for food industry. Able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : PAO  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 85 mm²/s  
Viscosity Index : 165  
Density 40°C : 860 kg/m³  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja CUT 32

### Cutting Fluid for Food Industry

An strong treated food grade heavy duty cutting fluid for medium to difficult metal working operations. Especially qualified for working processes like broaching and cuttings of hard steels in food industry or for producing products for food industry. Able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : PAO, Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 133  
Density 40°C : 825 kg/m³  
Pour point : -63 °C  
Foam Properties : 0/0/0 0/0/0

## MOLYDUVAL Soraja CUT 150

### Cutting Fluid for Food Industry

A special strong treated heavy duty cutting fluid for difficult brass cutting operations. Was developed for using one top fluid for a wide range of brass working and forming processes. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Density 40°C : 850 kg/m³  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja CUT 46 W

### Metal Forming Oil for Food Industry

Cutting Fluid for medium to difficult metal working operations. Especially qualified for rough working processes like broaching and difficult cuttings of high treated, hard steels. Is able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 8 mm²/s  
Viscosity Index : 138  
Density 40°C : 870 kg/m³  
Temperature Range : -40 -> +100 °C  
Pour point : -50 °C  
Flash Point COC : 230 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Oxidation resistance : 10000 h  
Oxidation resistance : 190 min  
Oxidation resistance : 0,2 %  
Wear Protection VKA welding load : 1700 N  
Corrosion Protection : 0 Grade  
Corrosion Protection copper : 1a Grade

## MOLYDUVAL Soraja CUT 22

### Cutting Fluid for Food Industry

An strong treated food grade heavy duty cutting fluid for medium to difficult metal working operations. Especially qualified for working processes like broaching and cuttings of hard steels in food industry or for producing products for food industry. Able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : PAO + Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 160  
Density 40°C : 900 kg/m³  
Pour point : -51 °C

## MOLYDUVAL Soraja CUT 68

### Cutting Fluid for Food Industry

An strong treated food grade heavy duty cutting fluid for medium to difficult metal working operations. Especially qualified for working processes like broaching and cuttings of hard steels in food industry or for producing products for food industry. Able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : PAO  
Name : CLPHC68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 232 °C  
Foam Properties : 5/10/5 0/0/0

separating and forming lubricant in the manufacture of workpieces for food processing machines.

Density 40°C : 1070 kg/m³  
Pour point : -39 °C  
Flash Point COC : 245 °C

## MOLYDUVAL Soraja CUTE 15

### Metalworking Fluid for Food Industry

Metal working oil for the food industry with good adhesion to the cutting point and good corrosion protection. Complies with USDA H1 guidelines and is therefore particularly suitable as a separating and forming lubricant in the manufacture of workpieces for food processing machines and devices. Tried and tested as a separating agent for knives and blades.

Base Fluid : Ester  
Viscosity Class : 15/22 ISO-VG  
Viscosity 40°C : 17 mm²/s  
Viscosity 100°C : 4,2 mm²/s  
Viscosity Index : 160  
Density 40°C : 930 kg/m³  
Temperature Range : -40 -> +200 °C  
Pour point : -48 °C  
Flash Point COC : > 250 °C

## MOLYDUVAL Soraja CUTE 320

### Metalworking Fluid for Food Industry

Cutting Fluid for medium to difficult metal working operations. Especially qualified for rough working processes like broaching and difficult cuttings of high treated, hard steels. Is able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 33 mm²/s  
Viscosity Index : 140  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +150 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja CUTE 46

### Metalworking Fluid for Food Industry

Cutting Fluid for medium to difficult metal working operations. Especially qualified for rough working processes like broaching and difficult cuttings of high treated, hard steels. Is able to build up a lubricant film at high temperatures of low shear strength, preventing a welding between workpiece and tool.

Base Fluid : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,5 mm²/s  
Viscosity Index : 190  
Density 40°C : 920 kg/m³  
Temperature Range : -40 -> +200 °C  
Pour point : -45 °C  
Flash Point COC : 300 °C

## MOLYDUVAL Soraja CUTG 460

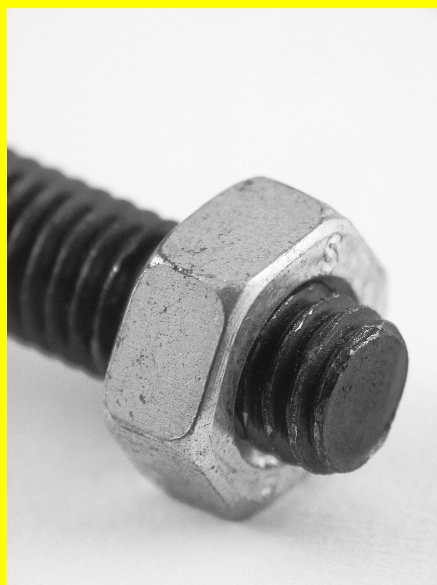
### Metalworking Fluid for Food Industry

Chlorine-free food-grade lubricating oil for metalworking. It has good adhesion to the cutting site and provides good corrosion protection. Meets the USDA H1 guidelines and is therefore particularly suitable as a

Base Fluid : PG  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 77 mm²/s  
Viscosity Index : 252

### Weitere Informationen erhalten Sie von den Mitarbeitern unserer Anwendungstechnik !

Die Angaben in dieser Produktinformation entsprechen dem Stand unserer aktuellen Kenntnisse und Erfahrungen in der Entwicklung und Herstellung von Schmierstoffen. Aufgrund der Komplexität tribologischer Systeme ist die Wirkungsweise unserer Produkte von vielen Parametern abhängig, die wir nicht einschätzen und deren Einfluss wir nicht beurteilen können. Aus diesem Grund sind allgemeingültige Aussagen zur Funktion unserer Produkte nicht möglich. Die Angaben in dieser Produktinformation stellen daher unverbindliche Richtwerte dar, die dem technisch erfahrenen Leser Hinweise zu möglichen Anwendungen geben. Eigenschaftszusicherungen oder Gewährleistungen oder Garantien für die Eigenschaften oder Eignung dieses Produktes für einen speziellen Einzelfall beinhalten diese Angaben nicht. Vor einem Einsatz dieses Produktes ist unbedingt die Durchführung von Versuchen erforderlich, um sicherzustellen, dass das Produkt für die spezifische Verwendung sicher, wirtschaftlich und in vollem Umfang geeignet ist. Hierbei ist mit gebotener Sorgfalt vorzugehen. Änderungen im Sinne einer technischen Weiterentwicklung vorbehalten. Wir behalten uns das Recht vor die Angaben in dieser Produktinformation jederzeit und ohne Ankündigung zu ändern. Alle früheren Produktinformationen verlieren mit Erscheinen dieser Produktinformation ihre Gültigkeit. Updating : 12.04.2023



# MOLYDUVAL Titus Ceramic Based Pastes

## MOLYDUVAL Titus BA 15 NZ

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : anorganic  
Name : ISO-L-XCGEB1,5  
Name : MPF1,5  
Consistency Class NLGI : ca. 1,5  
Density 15°C : 1380 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BA 25 NZ

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : anorganic  
Name : ISO-L-XCGEB2,5  
Name : MPF2,5  
Consistency Class NLGI : ca. 2,5  
Density 15°C : 1290 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus UG 15 ZT

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and nuts off all kind. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PG  
Thickener : Polyurea  
Name : MPGPf1,5U-40  
Consistency Class NLGI : ca. 1,5  
Density 15°C : 1020 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1200 °C  
Dropping Point : no °C  
Flash Point COC : > 250 °C  
Wear Protection VKA welding load : 3200 N

## MOLYDUVAL Titus BA 0 NZ

### Lubrication Paste for Highest Temperatures

Base Fluid : Syn  
Thickener : anorganic  
Name : ISO-L-XCGEB0  
Name : MPF0U-30  
Consistency Class NLGI : ca. 0  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BA 1 HV

### Lubrication Paste for Highest Temperatures

A high temperature - lubricating paste for assembly applications in critical environments, eg very high temperatures, corrosive media. Based on synthetic and mineral hydrocarbons. At high temperatures up to 1200°C a heat-resistant solid film remains, offering lubrication, pressure resistance and corrosion protection. It has proven itself in oscillating motion and high vibration. Reduces corrosion, burning and welding and allows for dismantling, even after long periods of operation.

Base Fluid : PAO, Min  
Thickener : anorganic  
Name : MPF1  
Consistency Class NLGI : ca. 1  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1200 °C  
Dropping Point : no °C  
Flash Point COC : > 250 °C  
Wear Protection VKA welding load : 3000 N

## MOLYDUVAL Titus BA 1 HVG

### Lubrication Paste for Highest Temperatures

A high temperature - lubricating paste for assembly applications in critical environments, eg very high temperatures, corrosive media. Based on synthetic and mineral hydrocarbons. At high temperatures up to 1200°C a heat-resistant solid film

Base Fluid : PAO, Min  
Thickener : anorganic  
Name : MPF1  
Consistency Class NLGI : ca. 1  
Viscosity Base Fluid, 40°C : 360 mm<sup>2</sup>/s  
Density 15°C : 1100 kg/m<sup>3</sup>



remains, offering lubrication, pressure resistance and corrosion protection. It has proven itself in oscillating motion and high vibration. Reduces corrosion, burning and welding and allows for dismantling, even after long periods of operation.

## MOLYDUVAL Titus BA 1 Z

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : anorganic  
Name : ISO-L-XCGB1  
Name : MPF1U-30  
Consistency Class NLGI : 1  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BA 3 NZ

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : anorganic  
Name : ISO-L-XCGB3  
Name : MPF3  
Consistency Class NLGI : ca. 3  
Density 15°C : 1310 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BE 1 Z

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : Ester  
Thickener : anorganic  
Name : ISO-L-XCGB1  
Name : MPF1U-30  
Consistency Class NLGI : 1  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BG 1 ZO

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PG  
Thickener : anorganic  
Name : ISO-L-XCGB1,5  
Name : MPF1,5U-30  
Consistency Class NLGI : 1,5  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BG 15 B

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid

Base Fluid : PG  
Thickener : anorganic  
Name : MPF1

lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

## MOLYDUVAL Titus BG 15 G

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and nuts off all kind. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PG  
Thickener : anorganic  
Name : MPGPF1  
Consistency Class NLGI : ca. 1  
Density 15°C : 1080 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1200 °C  
Dropping Point : no °C  
Flash Point COC : > 250 °C  
Wear Protection VKA welding load : 3200 N

## MOLYDUVAL Titus BG 2 NN

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PG  
Thickener : anorganic  
Name : ISO-L-XCGB2  
Name : MPF2  
Consistency Class NLGI : ca. 2  
Density 15°C : 1200 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus BG 2 Z

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PG  
Thickener : anorganic  
Name : ISO-L-XCGB1,5  
Name : MPF1,5U-30  
Consistency Class NLGI : 1,5  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus Spray

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : Bentone  
Name : MPF2  
Density 40°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Titus ZKG 2

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting

Base Fluid : PG  
Thickener : anorganic  
Name : ISO-L-XCGB1,5  
Name : MPF1,5U-30  
Consistency Class NLGI : 1,5

even after long periods and very high temperatures is possible.

Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Dropping Point : no °C

Weitere Informationen erhalten Sie von den Mitarbeitern unserer Anwendungstechnik !

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# MOLYDUVAL Herkules Hydraulic Fluids

## MOLYDUVAL Herkules AE 15 VI

### Synthetic PAO High VI Hydraulik Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Base Fluid : PAO  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 16,6 mm²/s  
Viscosity 100°C : 3,9 mm²/s  
Viscosity Index : 132  
Density 40°C : 821 kg/m³  
Pour point : -66 °C  
Flash Point COC : 226 °C

dissolved (detergent) and held in suspension (dispersed) together with foreign substances that have penetrated into the system. Water and water-mixed cooling lubricants are emulsified without significant impairment of the excellent lubrication and corrosion protection properties. Polar additives improve the sliding properties and prevent the occurrence of stick-slip phenomena (stick-slip) even in extremely unfavorable operating conditions.

Viscosity 100°C : 16 mm²/s  
Viscosity Index : 110  
Density 40°C : 880 kg/m³  
Pour point : -21 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Herkules AE 32 XVI

### Synthetic PAO High VI Hydraulik Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 8,8 mm²/s  
Viscosity Index : 250  
Density 40°C : 830 kg/m³  
Pour point : -63 °C  
Flash Point COC : 230 °C

## MOLYDUVAL Herkules M 150 VZ

### Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity 40°C : 150 mm²/s  
Viscosity Index : 97  
Density 40°C : 863 kg/m³  
Pour point : -27 °C  
Flash Point COC : 254 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Demulsifying Ability : 40/40/0(20)  
Neutralisation Value : 1,6 mg KOH/g  
Air release 50°C, to 0,2% air : 8 min

## MOLYDUVAL Herkules GWW 15 HFC

### Fire-resistant Hydraulic Fluid

Synthetic, flame-retardant hydraulic fluid based on water and glycol.

Viscosity 40°C : 15 mm²/s  
Viscosity Index : > 200  
Density 40°C : 1050 kg/m³

## MOLYDUVAL Herkules M 150 DZ

### Special Hydraulic Fluid

A mineral oil based detergent and dispersing hydraulic oil. Adhesions and deposits are

Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s

## MOLYDUVAL Herkules M 220 VZ

### Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Base Fluid : Min  
Name : ISO-L-CKC220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 97  
Density 40°C : 890 kg/m³  
Temperature Range : -10 -> + 100 °C  
Pour point : -21 °C

## MOLYDUVAL Herkules M 32 DZ

## MOLYDUVAL Herkules M 46 DZ

### Special Hydraulic Fluid

A mineral oil based detergent and dispersing hydraulic oil. Adhesions and deposits are dissolved (detergent) and held in suspension (dispersed) together with foreign substances that have penetrated into the system. Water and water-mixed cooling lubricants are emulsified without significant impairment of the excellent lubrication and corrosion protection properties. Polar additives improve the sliding properties and prevent the occurrence of stick-slip phenomena (stick-slip) even in extremely unfavorable operating conditions.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 6,7 mm²/s  
Viscosity Index : 100  
Density 40°C : 880 kg/m³  
Pour point : -27 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Herkules M 68 DUC

### Molecular Converted Hydraulic Fluid

Universal high-performance hydraulic oil with excellent viscosity - temperature behavior and detergent additives. It is finely filtered according to the purity class ISO standard 4406 on 15/13/10. High-quality base oils guarantee excellent lubricating properties even under long-lasting, high loads.

Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : 135  
Density 40°C : 0,860 kg/m³  
Flash Point COC : 210 °C  
Lubricating Ability FZG Test, A/8.3/90 : load stage Grade  
Pour point : -36 °C

## MOLYDUVAL Herkules MHC 100

### Molecular Converted Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems which operate longer at higher temperatures. Based on modern hydrocrack base fluids it offers higher shear stability, better starting conditions at low temperatures.

Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 155  
Density 40°C : 870 kg/m³  
Flash Point COC : 235 °C  
Pour point : -42 °C

## MOLYDUVAL Herkules AE 22 XVI

### Synthetic PAO High VI Hydraulic Fluid

Universal, low-viscosity, synthetic high-performance hydraulic oil with very good viscosity-temperature behavior. High-quality base oils offer excellent lubricating properties even in long-lasting, high loads.

Base Fluid : PAO  
Name : CLPHC15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 16 mm²/s  
Viscosity 100°C : 3 mm²/s  
Viscosity Index : 120  
Density 40°C : 815 kg/m³  
Temperature Range : -50 -> +120 °C  
Pour point : -66 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Herkules AE 32 VI

### Synthetic PAO High VI Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 30,5 mm²/s  
Viscosity 100°C : 5,8 mm²/s  
Viscosity Index : 138  
Density 40°C : 825 kg/m³  
Pour point : -66 °C  
Flash Point COC : 242 °C

## MOLYDUVAL Herkules AE 46 VI

### Synthetic PAO High VI Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 138  
Density 40°C : 830 kg/m³  
Temperature Range : -50 -> +120 °C  
Pour point : -54 °C  
Flash Point COC : 250 °C  
Foam Properties : 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Herkules EO 100 HFD

### Fire-resistant Hydraulic Fluid

Synthetic fire resistant hydraulic fluid based on synthetic polyol esters following classification HFDU.

Viscosity 40°C : 100 mm²/s  
Viscosity Index : 184  
Density 40°C : 920 kg/m³  
Pour point : -21 °C  
Flash Point COC : 300 °C

It offers excellent lubrication characteristics connected with high effective flame protection and prevents a fire spread.

The synthetic basic oil guarantees a very high viscosity index (VI) and thus a large work area also equal lasting product properties also at different work temperatures.

## MOLYDUVAL Herkules EO 27

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic hydraulic oil for industrial and mobile hydraulic systems, based on synthetic polyol esters. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Viscosity 40°C : 27 mm²/s  
Viscosity 100°C : 5 mm²/s  
Density 40°C : 990 kg/m³  
Pour point : -50 °C

## MOLYDUVAL Herkules EO 32 HFD

### Fire-resistant Hydraulic Fluid

Synthetic fire resistant hydraulic fluid based on synthetic polyol esters following

Base Fluid : polyol ester  
Viscosity 40°C : 35 mm²/s



classification HFDU.

It offers excellent lubrication characteristics connected with high effective flame protection and prevents a fire spread.

The synthetic basic oil guarantees a very high viscosity index (VI) and thus a large work area also equal lasting product properties also at different work temperatures.

Viscosity 100°C : 7,7 mm²/s  
Viscosity Index : 199  
Density 40°C : 920 kg/m³  
Pour point : -26 °C  
Flash Point COC : > 290 °C  
Foam Properties : 0/0  
Biodegradability : > 80 %  
Fire point : 344 °C  
Heat Conductivity 20°C : 0,072 W/(K·m)  
Wear Protection FZG test : 12 Grade  
Wear Protection : pass

## MOLYDUVAL Herkules EO 46 HFD

### Fire-resistant Hydraulic Fluid

Synthetic fire resistant hydraulic fluid based on synthetic polyol esters following classification HFDU.

It offers excellent lubrication characteristics connected with high effective flame protection and prevents a fire spread.

The synthetic basic oil guarantees a very high viscosity index (VI) and thus a large work area also equal lasting product properties also at different work temperatures.

Base Fluid : ester  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,2 mm²/s  
Viscosity Index : 200  
Density 40°C : 920 kg/m³  
Pour point : -27 °C  
Flash Point COC : > 300 °C  
Foam Properties : 0/0  
Biodegradability : > 60 %  
Fire point : > 340 °C  
Heat Conductivity 20°C : 0,11 W/(K·m)  
Wear Protection FZG test : 12 Grade  
Wear Protection : pass

## MOLYDUVAL Herkules EO 68 HFD

### Fire-resistant Hydraulic Fluid

Synthetic fire resistant hydraulic fluid based on synthetic polyol esters following classification HFDU.

It offers excellent lubrication characteristics connected with high effective flame protection and prevents a fire spread.

The synthetic basic oil guarantees a very high viscosity index (VI) and thus a large work area also equal lasting product properties also at different work temperatures.

Viscosity 40°C : 65 mm²/s  
Viscosity 100°C : 12 mm²/s  
Viscosity Index : 184  
Density 40°C : 920 kg/m³  
Pour point : -21 °C  
Flash Point COC : > 300 °C

## MOLYDUVAL Herkules GW 22

### Special Hydraulic Fluid

Synthetic hydraulic fluid based on polyalkylene glycols. Doesn't contain water but is soluble in cold water in any ratio. Is used, where leaks with hydraulic mineral oils could pose environmental problems. The high VI gives good flowability at low temperatures and sufficiently high viscosity at high temperatures. Machinery paints could be redeemed, the compatibility must therefore be tested before use.

Base Fluid : PG  
Name : PGLP22  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,8 mm²/s  
Density 40°C : 1000 kg/m³  
Pour point : -46 °C  
Flash Point COC : 161 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Herkules GW 46

### Special Hydraulic Fluid

A synthetic, water soluble lubrication fluids with excellent high temperature stability and excellent wear protection. Suitable for gears, and hydraulic application and approved in sensitive areas.

Base Fluid : PG  
Name : PGLP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 7,6 mm²/s  
Density 40°C : 1020 kg/m³  
Pour point : -42 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Herkules GWW 46 HFC

### Fire-resistant Hydraulic Fluid

Synthetic, fire resistant hydraulic fluid based on water and glycol. Corresponds to the requirements of "7. Luxemburger report over requirements and examinations of flame resistant Hydraulic fluids for hydraulic power transmission and control in the mining industry".

Nitrite-free, to avoid forming of nitrosamines and in an environmentally friendly manner.

The natural high viscosity index remains in long uses. NBR seals materials are as far as possible steady.

pH-value : 9,3 -  
Viscosity 40°C : 39 mm²/s  
Viscosity Index : > 200  
Density 40°C : 1070 kg/m³  
Pour point : < -42 °C

## MOLYDUVAL Herkules HFA

### Water Soluble Hydraulic Fluid

A flame resistant hydraulic fluid of the type HFA-E, a micro emulsion. It is used primarily into water-hydraulic plants in the range of the industry (press water systems) and the mining industry. Typical employment concentration are depending upon application 2-5 %. On mineral oil as basis liquid one developed and is work-hygenically, ecological and toxicological as far as possible harmless after today's conditions. Fulfills the criteria 7. Luxemburger of report, the appropriate DIN and VDMA working sheets.

Density 40°C : 1010 kg/m³  
pH-value 1% in H2O : 9,8 -

## MOLYDUVAL Herkules M 100 VZ

### Special Hydraulic Fluid

Special hydraulic fluid for hydraulic systems equipped with fine filters, or systems not compatible with zinc based anti-wear hydraulic oils. Provides highest performance in systems sensitive to environmental contaminants and therefore equipped with fine filtration systems. Approved for use in Mannesmann Rexroth hydraulic pumps.

Base Fluid : Min  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 11,2 mm²/s  
Viscosity Index : 97  
Density 40°C : 860 kg/m³  
Pour point : -18 °C  
Flash Point COC : 254 °C

## MOLYDUVAL Herkules M 150 ZF

### Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity Index : 97  
Density 40°C : 863 kg/m<sup>3</sup>  
Pour point : -27 °C  
Flash Point COC : 254 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Demulsifying Ability : 40/40/0(20)  
Neutralisation Value : 1,6 mg KOH/g  
Air release 50°C, to 0,2% air : 8 min

Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : ca. 300  
Density 40°C : 830 kg/m<sup>3</sup>  
Pour point : < -55 °C  
Flash Point COC : > 150 °C  
Content : < 0,05 %

## MOLYDUVAL Herkules M 22 DZ

### Special Hydraulic Fluid

A mineral oil based detergent and dispersing hydraulic oil. Adhesions and deposits are dissolved (detergent) and held in suspension (dispersed) together with foreign substances that have penetrated into the system. Water and water-mixed cooling lubricants are emulsified without significant impairment of the excellent lubrication and corrosion protection properties. Polar additives improve the sliding properties and prevent the occurrence of stick-slip phenomena (stick-slip) even in extremely unfavorable operating conditions.

Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,3 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -30 °C  
Flash Point COC : 195 °C

## MOLYDUVAL Herkules M 22 P

### Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,3 mm<sup>2</sup>/s  
Viscosity Index : 98  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -30 °C  
Flash Point COC : 200 °C

## MOLYDUVAL Herkules M 22 VZ

### Special Hydraulic Fluid

High quality zinc-free multi-grade hydraulic oil based on high quality Group II base oils. A well-coordinated additive offers a high, stable viscosity index, excellent protection against wear, good protection against corrosion, high oxidation stability, very good demulsifying properties and excellent air and water separation properties. It is particularly suitable for heavy-duty hydraulic systems in industry and for construction and agricultural machinery, particularly when the operating temperature fluctuates significantly.

Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,8 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 850 kg/m<sup>3</sup>  
Flash Point COC : 190 °C  
Pour point : -42 °C

## MOLYDUVAL Herkules M 22 XVI

### Special Hydraulic Fluid

Hydraulic Oil with high viscosity index

Viscosity Class : VG 22 ISO-VG

## MOLYDUVAL Herkules M 22 ZF

### Special Hydraulic Fluid

Special hydraulic fluid for hydraulic systems equipped with fine filters, or systems not compatible with zinc based anti-wear hydraulic oils. Provides highest performance in systems sensitive to environmental contaminants and therefore equipped with fine filtration systems. Approved for use in Mannesmann Rexroth hydraulic pumps.

Base Fluid : Min  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,3 mm<sup>2</sup>/s  
Viscosity Index : 98  
Density 40°C : 873 kg/m<sup>3</sup>  
Pour point : -30 °C  
Flash Point COC : 194 °C

## MOLYDUVAL Herkules M 26 XVI

### Special Hydraulic Fluid

A supercleaned high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity Class : VG 22/32 ISO-VG  
Viscosity 40°C : 26 mm<sup>2</sup>/s  
Viscosity 100°C : 9,3 mm<sup>2</sup>/s  
Viscosity Index : 376  
Density 40°C : 890 kg/m<sup>3</sup>  
Flash Point COC : 103 °C  
Pour point : < -60 °C

## MOLYDUVAL Herkules M 32 VZ

### Special Hydraulic Fluid

Special hydraulic fluid for hydraulic systems equipped with fine filters, or systems not compatible with zinc based anti-wear hydraulic oils. Provides highest performance in systems sensitive to environmental contaminants and therefore equipped with fine filtration systems. Approved for use in Mannesmann Rexroth hydraulic pumps.

Base Fluid : Min  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 6,35 mm<sup>2</sup>/s  
Viscosity Index : 141  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -32 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Herkules M 32 XVI

### Special Hydraulic Fluid

A supercleaned high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity Class : VG 32 ISO-VG  
Viscosity 40°C : 31 mm<sup>2</sup>/s  
Viscosity 100°C : 10 mm<sup>2</sup>/s  
Viscosity Index : 350  
Density 40°C : 850 kg/m<sup>3</sup>  
Flash Point COC : 113 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Pour point : < -60 °C  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Herkules M 32 ZF

### Special Hydraulic Fluid

High quality zinc-free multi-grade hydraulic oil based on high quality Group II base oils. A well-coordinated additive offers a high,

Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : > 150  
Density 40°C : 850 kg/m<sup>3</sup>

stable viscosity index, excellent protection against wear, good protection against corrosion, high oxidation stability, very good demulsifying properties and excellent air and water separation properties. It is particularly suitable for heavy-duty hydraulic systems in industry and for construction and agricultural machinery, particularly when the operating temperature fluctuates significantly.

Flash Point COC : 210 °C  
Pour point : -42 °C

## MOLYDUVAL Herkules M 46 DVI

### Special Hydraulic Fluid

A detergent high-performance high viscosity index multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46,8 mm²/s  
Viscosity Index : > 160  
Density 40°C : 870 kg/m³  
Flash Point COC : 230 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Pour point : -36 °C

## MOLYDUVAL Herkules M 68 DVI

### Special Hydraulic Fluid

A detergent high-performance high viscosity index multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 13 mm²/s  
Viscosity Index : 180  
Density 40°C : 870 kg/m³  
Flash Point COC : 230 °C

## MOLYDUVAL Herkules M 68 VZ

### Special Hydraulic Fluid

Hydraulic Oil with high viscosity index

Viscosity 40°C : 68 mm²/s  
Viscosity Index : 188  
Density 40°C : 880 kg/m³  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Herkules M 68 ZF

### Special Hydraulik Fluid

Special hydraulic fluid for hydraulic systems equipped with fine filters, or systems not compatible with zinc based anti-wear hydraulic oils. Provides highest performance in systems sensitive to environmental contaminants and therefore equipped with fine filtration systems. Approved for use in Mannesmann Rexroth hydraulic pumps.

Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 10 mm²/s  
Viscosity Index : 135  
Density 40°C : 860 kg/m³  
Flash Point COC : 230 °C  
Pour point : -24 °C

## MOLYDUVAL Herkules ME 15 VI

### Special Hydraulic Fluid

Hydraulic Oil with high viscosity index

Base Fluid : Min, Ester  
Name : HLP10/15  
Viscosity Class : 10/15 ISO-VG  
Viscosity 40°C : 12 mm²/s  
Density 40°C : 860 kg/m³  
Temperature Range : -10 -> +80 °C

Flash Point COC : 170 °C

## MOLYDUVAL Herkules MHC 32

### Molecular Converted Hydraulic Fluid

High-quality zinc-free multigrade hydraulic oil type HVLP based on carefully selected Group III "hydro-cracked" base oil. The combination with high-quality additives offers a high, stable viscosity index, excellent protection against wear, good protection against rust and corrosion, high oxidation stability, very good demulsifying effect and excellent air separation properties. Suitable for numerous hydraulic systems, especially when an oil type HVLP or HLP is required.

Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Flash Point COC : 200 °C  
Pour point : -51 °C

## MOLYDUVAL Herkules MHC 46

### Molecular Converted Hydraulic Fluid

High-quality zinc-free multigrade hydraulic oil type HVLP based on carefully selected Group III "hydro-cracked" base oil. The combination with high-quality additives offers a high, stable viscosity index, excellent protection against wear, good protection against rust and corrosion, high oxidation stability, very good demulsifying effect and excellent air separation properties. Suitable for numerous hydraulic systems, especially when an oil type HVLP or HLP is required.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9 mm²/s  
Viscosity Index : 180  
Density 40°C : 870 kg/m³  
Flash Point COC : 240 °C  
Pour point : -33 °C

## MOLYDUVAL Herkules MHC 68

### Molecular Converted Hydraulic Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems which operate longer at higher temperatures. Based on modern hydrocrack base fluids it offers higher shear stability, better starting conditions at low temperatures.

Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 10 mm²/s  
Viscosity Index : 135  
Density 40°C : 860 kg/m³  
Flash Point COC : 210 °C  
Lubricating Ability FZG Test, A/8.3/90 : load stage Grade  
Pour point : -36 °C

## MOLYDUVAL Herkules MHC 85

### High VI Hydraulik Fluid

A high-performance multi-purpose hydraulic fluid for hydraulic systems. Based on modern base fluids it offers high shear stability.

Viscosity 40°C : 92 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 156  
Density 40°C : 870 kg/m³  
Pour point : -40 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Herkules YM 22

### Flushing Fluid for Hydraulics

A premium quality fluid designed to dissolve varnish and solubize sludge from hydraulic system during operation. It can also be used as a system flush when changing over

Base Fluid : Min  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,1 mm²/s  
Viscosity Index : 97

from mineral to synthetic oil in order to reduce contamination.

Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -15 °C  
Flash Point COC : 202 °C

## MOLYDUVAL Herkules YM 46

### Flushing Fluid for Hydraulics

A premium quality fluid designed to dissolve varnish and solubize sludge from hydraulic system during operation. It can also be used as a system flush when changing over from mineral to synthetic oil in order to reduce contamination.

Base Fluid : Min  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 140  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -15 °C  
Flash Point COC : 190 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Soraja

## Hydraulic Fluids for Food-Industry

### MOLYDUVAL Amadeus A 100 LP

#### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

### MOLYDUVAL Amadeus A 32 L

#### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPSKW32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 240 °C  
Foam Properties : 0/0/0 0/0/0  
Demulsifying Ability : 40/40/0

### MOLYDUVAL Amadeus A 32 U

#### MOLYDUVAL Amadeus F 100 LC

#### Synthetic Vacuum Pump Oil

A high performance lubrication oil based on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their decomposition.

Base Fluid : PFPE  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 1900 kg/m³  
Temperature Range : -30 -> 250 °C  
Pour point : -35 °C  
Flash Point COC : no °C

### MOLYDUVAL Amadeus F 22 XU

#### Synthetic Vacuum Pump Oil

A high performance lubrication oil based on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their decomposition.

Base Fluid : PFPE  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Density 40°C : 1880 kg/m³  
Temperature Range : -54 -> 130 °C  
Pour point : -60 °C  
Vapour Pressure 20°C : 5,3 \* 10 E-7 hPa  
Flash Point COC : no °C

### MOLYDUVAL Amadeus M 220

#### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 890 kg/m³  
Pour point : -12 °C  
Flash Point COC : 250 °C

Color : 2,5

## MOLYDUVAL Amadeus M 32 L

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Name : VCL32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,3 mm²/s  
Viscosity 50°C : 21 mm²/s  
Density 40°C : 0,868 kg/m³  
Pour point : -21 °C  
Flash Point COC : 205 °C

## MOLYDUVAL Amadeus A 100

### Synthetic Vacuum Pump Oil

A synthetic lubricating oil for vacuum pumps based on high purity polyalphaolefin (PAO) - based. Offers good high and low temperature stability, natural wear protection and excellent seal compatibility. In some applications, it is suitable for lifetime lubrication.

Base Fluid : PAO  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Amadeus A 100 L

### Synthetic Vacuum Pump Oil

A synthetic lubricating oil for vacuum pumps based on high purity polyalphaolefin (PAO) - based. Offers good high and low temperature stability, natural wear protection and excellent seal compatibility. In some applications, it is suitable for lifetime lubrication.

Base Fluid : PAO  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Amadeus A 150

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 19,3 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Pour point : -45 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Amadeus A 320

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 150  
Density 40°C : 845 kg/m³  
Pour point : -30 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Amadeus A 46

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPSKW46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 240 °C  
Foam Properties : 0/0/0 0/0/0  
Demulsifying Ability : 40/40/0

## MOLYDUVAL Amadeus A 46 E

### Synthetic Vacuum Pump Oil

## MOLYDUVAL Amadeus A 68

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 232 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Amadeus E 68

### Synthetic Vacuum Pump Oil

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 6,9 mm²/s  
Density 40°C : 940 kg/m³  
Pour point : -35 °C  
Flash Point COC : 266 °C

## MOLYDUVAL Amadeus ED 100

### Synthetic Vacuum Pump Oil

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Name : ELP100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 95 mm²/s  
Viscosity 100°C : 9,2 mm²/s  
Viscosity 0°C : 2100 mm²/s  
Density 40°C : 940 kg/m³  
Pour point : -35 °C  
Flash Point COC : 266 °C  
Evaporation Loss 22h 100°C (210°F) : 0,98 %

## MOLYDUVAL Amadeus ED 32

### Synthetic Vacuum Pump Oil

A high temperature synthetic, ester based,

Base Fluid : Ester

vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Viscosity Class : 28 ISO-VG  
Viscosity 40°C : 28 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 915 kg/m<sup>3</sup>  
Pour point : -54 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Amadeus ED 46 L

### Synthetic Vacuum Pump Oil

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Name : ELP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 42 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 910 kg/m<sup>3</sup>  
Pour point : -51 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Amadeus F 100 X

### Synthetic Vacuum Pump Oil

A high performance lubrication oil based on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their decomposition.

Base Fluid : PFPE  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Density 40°C : 1900 kg/m<sup>3</sup>  
Temperature Range : -30 -> 250 °C  
Pour point : -35 °C  
Flash Point COC : no °C

## MOLYDUVAL Amadeus F 150 X

## MOLYDUVAL Amadeus F 270 X

### Synthetic Vacuum Pump Oil

A heavy - duty lubrication oil for highest temperatures (in the range up to +300°C). It is especially used, if conventional hydrocarbon oils or other synthetic fluids shows no satisfactory lubrication effect because of decomposition. Although it is relative expensive the use can be economic, either the lubrication intervals will be increased, partly life time lubrication can be reached, or friction reduction is possible.

Base Fluid : PFPE  
Viscosity Class : 220/320 ISO-VG  
Viscosity 40°C : 260 mm<sup>2</sup>/s  
Viscosity Index : 131  
Density 40°C : 1910 kg/m<sup>3</sup>  
Temperature Range : -25 -> 230 °C  
Pour point : -25 °C  
Flash Point COC : no °C

## MOLYDUVAL Amadeus M 100 L

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 11 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 240 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 125

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 100/150 ISO-VG  
Viscosity 40°C : 122 mm<sup>2</sup>/s  
Viscosity 100°C : 12,9 mm<sup>2</sup>/s  
Density 40°C : 0,88 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 270 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 150

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 14 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 22

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 20 mm<sup>2</sup>/s  
Viscosity 100°C : 4 mm<sup>2</sup>/s  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 200 °C  
Color : 0,5

## MOLYDUVAL Amadeus M 32

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 22/32 ISO-VG  
Viscosity 40°C : 27 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 220 °C  
Color : 0,5

## MOLYDUVAL Amadeus M 320

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 290 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 46

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 59 mm<sup>2</sup>/s  
Viscosity 100°C : 7,9 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>

Pour point : -12 °C  
Flash Point COC : 260 °C  
Color : 1,0

## **MOLYDUVAL Amadeus M 460**

### **Vacuum Pump Oil**

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Density 40°C : 900 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 290 °C

## **MOLYDUVAL Amadeus M 68**

### **Vacuum Pump Oil**

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 60 mm<sup>2</sup>/s  
Viscosity 100°C : 7,9 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 246 °C  
Color : 1,0

## **MOLYDUVAL Amadeus SP 22**

### **Synthetic Vacuum Pump Oil**

A silicone based vacuum pump fluid capable of attaining medium to ultra-high vacuum. Suitable for diffusion vacuum pumps.

Viscosity 25°C : 39 mm<sup>2</sup>/s  
Density 25°C : 1060 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : > 200 °C  
Refractive Index 25°C : 1,5025  
Ignition Temperature : > 400 °C

## **MOLYDUVAL Amadeus SP 22**

### **Synthetic Vacuum Pump Oil**

A silicone based vacuum pump fluid capable of attaining medium to ultra-high vacuum. Suitable for diffusion vacuum pumps.

Viscosity 25°C : 39 mm<sup>2</sup>/s  
Density 25°C : 1060 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : > 200 °C  
Refractive Index 25°C : 1,5025  
Ignition Temperature : > 400 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Amadeus Vacuum Pump Fluids

## MOLYDUVAL Amadeus A 100 LP

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Amadeus A 32 L

### Synthetic Vacuum Pump Oil

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPSKW32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 240 °C  
Foam Properties : 0/0/0 0/0/0  
Demulsifying Ability : 40/40/0

## MOLYDUVAL Amadeus A 32 U

## MOLYDUVAL Amadeus F 100 LC

### Synthetic Vacuum Pump Oil

A high performance lubrication oil based

Base Fluid : PFPE

on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their

Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 1900 kg/m³  
Temperature Range : -30 -> 250 °C  
Pour point : -35 °C  
Flash Point COC : no °C

## MOLYDUVAL Amadeus F 22 XU

### Synthetic Vacuum Pump Oil

A high performance lubrication oil based on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their decomposition.

Base Fluid : PFPE  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Density 40°C : 1880 kg/m³  
Temperature Range : -54 -> 130 °C  
Pour point : -60 °C  
Vapour Pressure 20°C : 5,3 \* 10 E-7 hPa  
Flash Point COC : no °C

## MOLYDUVAL Amadeus M 220

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 890 kg/m³  
Pour point : -12 °C  
Flash Point COC : 250 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 32 L

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Name : VCL32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,3 mm²/s

Viscosity 50°C : 21 mm²/s  
Density 40°C : 0,868 kg/m³  
Pour point : -21 °C  
Flash Point COC : 205 °C

## **MOLYDUVAL Amadeus A 100**

### **Synthetic Vacuum Pump Oil**

A synthetic lubricating oil for vacuum pumps based on high purity polyalphaolefin (PAO) - based. Offers good high and low temperature stability, natural wear protection and excellent seal compatibility. In some applications, it is suitable for lifetime lubrication.

Base Fluid : PAO  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Amadeus A 100 L**

### **Synthetic Vacuum Pump Oil**

A synthetic lubricating oil for vacuum pumps based on high purity polyalphaolefin (PAO) - based. Offers good high and low temperature stability, natural wear protection and excellent seal compatibility. In some applications, it is suitable for lifetime lubrication.

Base Fluid : PAO  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 144  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Amadeus A 150**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 19,3 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Pour point : -45 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## **MOLYDUVAL Amadeus A 320**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 150  
Density 40°C : 845 kg/m³  
Pour point : -30 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## **MOLYDUVAL Amadeus A 46**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Name : CLPSKW46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³

Pour point : -54 °C  
Flash Point COC : 240 °C  
Foam Properties : 0/0/0 0/0/0  
Demulsifying Ability : 40/40/0

## **MOLYDUVAL Amadeus A 46 E**

### **Synthetic Vacuum Pump Oil**

## **MOLYDUVAL Amadeus A 68**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 11 mm²/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 232 °C  
Foam Properties : 5/10/5 0/0/0

## **MOLYDUVAL Amadeus E 68**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 6,9 mm²/s  
Density 40°C : 940 kg/m³  
Pour point : -35 °C  
Flash Point COC : 266 °C

## **MOLYDUVAL Amadeus ED 100**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Name : ELP100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 95 mm²/s  
Viscosity 100°C : 9,2 mm²/s  
Viscosity 0°C : 2100 mm²/s  
Density 40°C : 940 kg/m³  
Pour point : -35 °C  
Flash Point COC : 266 °C  
Evaporation Loss 22h 100°C (210°F) : 0,98 %

## **MOLYDUVAL Amadeus ED 32**

### **Synthetic Vacuum Pump Oil**

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Viscosity Class : 28 ISO-VG  
Viscosity 40°C : 28 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 150  
Density 40°C : 915 kg/m³  
Pour point : -54 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Amadeus ED 46 L

### Synthetic Vacuum Pump Oil

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors. Esters in general are unreactive and, depending on molecular weight, used in both mechanical and diffusion pumps.

Base Fluid : Ester  
Name : ELP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 42 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 910 kg/m<sup>3</sup>  
Pour point : -51 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Amadeus F 100 X

### Synthetic Vacuum Pump Oil

A high performance lubrication oil based on PFPE for the lubrication of vacuum pumps. It is particularly useful when conventional hydrocarbons such as mineral oils or other synthetic lubricating oils do not have a satisfactory lubricating effect or sufficient service life due to their decomposition.

Base Fluid : PFPE  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Density 40°C : 1900 kg/m<sup>3</sup>  
Temperature Range : -30 -> 250 °C  
Pour point : -35 °C  
Flash Point COC : no °C

## MOLYDUVAL Amadeus F 150 X

## MOLYDUVAL Amadeus F 270 X

### Synthetic Vacuum Pump Oil

A heavy - duty lubrication oil for highest temperatures (in the range up to +300°C). It is especially used, if conventional hydrocarbon oils or other synthetic fluids shows no satisfactory lubrication effect because of decomposition. Although it is relative expensive the use can be economic, either the lubrication intervals will be increased, partly life time lubrication can be reached, or friction reduction is possible.

Base Fluid : PFPE  
Viscosity Class : 220/320 ISO-VG  
Viscosity 40°C : 260 mm<sup>2</sup>/s  
Viscosity Index : 131  
Density 40°C : 1910 kg/m<sup>3</sup>  
Temperature Range : -25 -> 230 °C  
Pour point : -25 °C  
Flash Point COC : no °C

## MOLYDUVAL Amadeus M 100 L

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 11 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 240 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 125

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 100/150 ISO-VG  
Viscosity 40°C : 122 mm<sup>2</sup>/s  
Viscosity 100°C : 12,9 mm<sup>2</sup>/s  
Density 40°C : 0,88 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 270 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 150

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 14 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 22

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 20 mm<sup>2</sup>/s  
Viscosity 100°C : 4 mm<sup>2</sup>/s  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 200 °C  
Color : 0,5

## MOLYDUVAL Amadeus M 32

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 22/32 ISO-VG  
Viscosity 40°C : 27 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 220 °C  
Color : 0,5

## MOLYDUVAL Amadeus M 320

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 290 °C  
Color : 2,5

## MOLYDUVAL Amadeus M 46

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 59 mm<sup>2</sup>/s  
Viscosity 100°C : 7,9 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 260 °C  
Color : 1,0

## MOLYDUVAL Amadeus M 460

### Vacuum Pump Oil

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Density 40°C : 900 kg/m<sup>3</sup>  
Pour point : -12 °C

Flash Point COC : 290 °C

## **MOLYDUVAL Amadeus M 68**

### **Vacuum Pump Oil**

A vacuum pump fluid for use in a wide variety of vacuum compressors.

Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 60 mm<sup>2</sup>/s  
Viscosity 100°C : 7,9 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 246 °C  
Color : 1,0

## **MOLYDUVAL Amadeus SP 22**

### **Synthetic Vacuum Pump Oil**

A silicone based vacuum pump fluid capable of attaining medium to ultra-high vacuum. Suitable for diffusion vacuum pumps.

Viscosity 25°C : 39 mm<sup>2</sup>/s  
Density 25°C : 1060 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : > 200 °C  
Refractive Index 25°C : 1,5025  
Ignition Temperature : > 400 °C

## **MOLYDUVAL Amadeus SP 22**

### **Synthetic Vacuum Pump Oil**

A silicone based vacuum pump fluid capable of attaining medium to ultra-high vacuum. Suitable for diffusion vacuum pumps.

Viscosity 25°C : 39 mm<sup>2</sup>/s  
Density 25°C : 1060 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : > 200 °C  
Refractive Index 25°C : 1,5025  
Ignition Temperature : > 400 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Soraja

## Vacuum Pump Fluids for Food Industry

### MOLYDUVAL Soraja VA 100

#### Synthetic Vacuum Pump Oil for Food Industry

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in Food Industry.

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

### MOLYDUVAL Soraja VA 150

#### Synthetic Vacuum Pump Oil for Food Industry

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in Food Industry.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 155  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

### MOLYDUVAL Soraja VA 32

#### Synthetic Vacuum Pump Oil for Food Industry

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s

Food Industry.

Viscosity 100°C : 6 mm²/s  
Viscosity Index : 133  
Density 40°C : 825 kg/m³  
Temperature Range : -50 -> +120 °C  
Pour point : -63 °C  
Foam Properties : 0/0/0 0/0/0

### MOLYDUVAL Soraja VA 32 P

#### Synthetic Vacuum Pump Oil for Food Industry

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in Food Industry.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 6 mm²/s  
Viscosity Index : 133  
Density 40°C : 825 kg/m³  
Temperature Range : -50 -> +120 °C  
Pour point : -63 °C  
Foam Properties : 0/0/0 0/0/0

### MOLYDUVAL Soraja VA 68

#### Synthetic Food-Grade Vacuum Pump Oil

A synthetic lubricating oil based on polyalphaolefines for vacuum pumps in the food and pharmaceutical industries. In addition to excellent high and low temperature stability, it offers wear protection, good seal compatibility and excellent lubricity.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 9 mm²/s  
Viscosity Index : 142  
Density 40°C : 840 kg/m³  
Flash Point COC : 232 °C  
Pour point : -40 °C

## **MOLYDUVAL Soraja VA 68 P**

### **Synthetic Vacuum Pump Oil for Food Industry**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity 100°C : 9 mm<sup>2</sup>/s  
Viscosity Index : 142  
Density 40°C : 840 kg/m<sup>3</sup>  
Flash Point COC : 232 °C  
Pour point : -40 °C

## **MOLYDUVAL Soraja VE 100**

### **Synthetic Vacuum Pump Oil for Food Industry**

A high temperature synthetic, ester based, vacuum pump fluid for long term use in a wide variety of vacuum compressors.

Base Fluid : Ester  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 40°C : 96 mm<sup>2</sup>/s  
Viscosity 100°C : 14,3 mm<sup>2</sup>/s  
Viscosity Index : 153  
Density 40°C : 960 kg/m<sup>3</sup>  
Pour point : -42 °C  
Flash Point COC : 240 °C

## **MOLYDUVAL Soraja VMA 100**

### **Synthetic Vacuum Pump Oil for Food Industry**

A high temperature synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in Food Industry.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 13 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 850 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Pour point : -36 °C  
Flash Point COC : 250 °C

## **MOLYDUVAL Soraja VMA 32**

### **Synthetic Vacuum Pump Oil for Food Industry**

A high temperature semi-synthetic, PAO based, vacuum pump fluid for long term use in a wide variety of vacuum compressors in Food Industry.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 840 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Pour point : -36 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

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# MOLYDUVAL Tantalus Synthetic Gear Oils

## MOLYDUVAL Tantalus A 130 ML Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : -- ISO-VG  
Viscosity 40°C : 130 mm²/s  
Viscosity 100°C : 17 mm²/s  
Viscosity Index : 143  
Density 40°C : 860 kg/m³  
Pour point : -45 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Tantalus A 1500 ML Synthetic High Temperature Lubrication Oil

A high-viscosity synthetic lubricating oil based on polyalphaolefin (PAO) for a wide range of applications in the area of gear and chain lubrication. In addition to good high and low temperature stability, it offers excellent wear protection and good seal compatibility with many commonly used elastomers. Polyglycol oils, which are responsible for leaks in gearboxes in many areas, can often be replaced.

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1500 mm²/s  
Viscosity 100°C : 139 mm²/s  
Viscosity Index : 200  
Density 40°C : 850 kg/m³  
Pour point : -30 °C  
Flash Point COC : > 280 °C

## MOLYDUVAL Tantalus A 46 PP Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for

Base Fluid : PAO  
Name : SHCLP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 7,5 mm²/s  
Density 40°C : 840 kg/m³

bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Evaporation Loss 22h 149°C : 1 %  
Pour point : -54 °C  
Flash Point COC : 246 °C

## MOLYDUVAL Tantalus AM 1000 Synthetic Gear Oil

A highly treated synthetic gear oil on Polyalphaolefine (PAO) - base for a wide area of applications in the field of gear lubrication. It provides good high and low temperature stability excellent wear protection and good sealing compatibility with many elastomers commonly used.

Base Fluid : PAO  
Name : CLPHC1000  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 64 mm²/s  
Viscosity Index : 120  
Density 40°C : 870 kg/m³  
Pour point : -15 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus AM 15 T Heavy Duty Industrial Gear Oil

Very high viscosity industrial gear oil produced on the basis of selected mineral oil raffinates and polyalphaolefins for the lubrication of slow-running, large industrial gears with spur, bevel and worm toothing for immersion and circulation lubrication. Provides good wear protection, good compressive strength and strong adhesion to the metal surfaces.

Base Fluid : Min, PAO  
Viscosity 40°C : 15000 mm²/s  
Viscosity Index : ca. 170  
Density 40°C : 920 kg/m³  
Flash Point COC : > 200 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus AM 15 TV Heavy Duty Industrial Gear Oil

Very highly viscous, transparent adhesive lubricant for lubrication of slow-running, large industrial gears with spur gear, bevel gear

Base Fluid : Min, PAO  
Viscosity 40°C : 4000 mm²/s

and worm toothing for spray lubrication. Provides good wear protection, good compressive strength and strong adhesion to the metal surfaces. Made on the basis of selected mineral oil raffinates and synthetic hydrocarbons.

## MOLYDUVAL Tantalus AM 460

### Synthetic Gear Oil

A highly additive synthetic lubricating oil based on polyalphaolefin (PAO) for a wide range of applications in the field of gear lubrication. In addition to good high and low temperature stability, it offers excellent wear protection and good seal compatibility with many commonly used elastomers.

Viscosity Index : 160  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> 120 °C  
Flash Point COC : > 130 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

Base Fluid : PAO + Min  
Name : CLPHC320  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity 100°C : 38,5 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -33 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus EB 680

### Synthetic Biodegradable Gear Oil

## MOLYDUVAL Tantalus GP 320 PP

### Synthetic High Performance Gear Oil

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 49 mm<sup>2</sup>/s  
Viscosity Index : 216  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -30 °C  
Flash Point COC : 230 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus GP 420 PP

### Synthetic High Temperature Oil

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Viscosity Class : 320/460 ISO-VG  
Viscosity 40°C : 420 mm<sup>2</sup>/s  
Viscosity 100°C : 61,7 mm<sup>2</sup>/s  
Viscosity Index : 218  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -30 °C  
Flash Point COC : 250 °C  
Foam Properties : 20/30/10 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus GP 460 PP

### Synthetic High Temperature Oil

A synthetic high-performance lubricating oil for industrial gears and high-temperature circulation systems. Proven for years for worm gears. Polyglycols are used as base

Base Fluid : PG  
Name : PGLP460  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s

oils, which are characterized by excellent high temperature stability and very low coefficients of friction. The low coefficients of friction are particularly advantageous in worm gears, since there is a sliding friction component due to the design. Furthermore, the product is equipped with anti-corrosion, anti-oxidation and anti-wear additives.

Viscosity 100°C : 65 mm<sup>2</sup>/s  
Viscosity Index : 218  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -30 °C  
Flash Point COC : 210 °C  
Foam Properties : 20/30/10 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus GP 680 PP

### Synthetic High Temperature Oil

A synthetic high-performance lubricating oil for industrial gears and high-temperature circulation systems. Proven for years for worm gears. Polyglycols are used as base oils, which are characterized by excellent high temperature stability and very low coefficients of friction. The low coefficients of friction are particularly advantageous in worm gears, since there is a sliding friction component due to the design. Furthermore, the product is equipped with anti-corrosion, anti-oxidation and anti-wear additives.

Base Fluid : PG  
Name : CLPPG680  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm<sup>2</sup>/s  
Viscosity 100°C : 106 mm<sup>2</sup>/s  
Viscosity Index : 230  
Density 40°C : 1070 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -35 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus GP 800 PP

### Synthetic High Temperature Oil

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Viscosity Class : 680/1000 ISO-VG  
Viscosity 40°C : 800 mm<sup>2</sup>/s  
Viscosity Index : 255  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -33 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus GW 460 T

### Synthetic High Temperature Oil

A synthetic high performance gear oil with PTFE for industrial gearboxes. As base oils polyglycols are used, which are characterized by excellent high-temperature stability and very low friction values. The low coefficients of friction are advantageous especially with worm gears, as there is a sliding friction component due to the design. In addition to the solid lubricant PTFE, the product is equipped with corrosion protection, oxidation protection and wear protection additives.

Base Fluid : PG  
Name : PGLPF460  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity 100°C : 65 mm<sup>2</sup>/s  
Viscosity Index : 218  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +210 °C  
Pour point : -30 °C  
Flash Point COC : 210 °C  
Foam Properties : 20/30/10 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 100

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 14 mm<sup>2</sup>/s  
Viscosity Index : 144



bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Tantalus A 100 M

### Synthetic High Temperature Gear Oil with MoS<sub>2</sub>

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Contains molybdenum disulphide for reducing friction. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPFHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -21 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 100 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 15 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0  
Wear Protection FZG Test A/8.3/90 : > 14 Grade

## MOLYDUVAL Tantalus A 1000

### Synthetic High Temperature Lubrication Oil

A 100% synthetic high viscosity PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity 100°C : 85 mm<sup>2</sup>/s  
Viscosity Index : 180  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 1000 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP

Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m<sup>3</sup>  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -36 °C

as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

## MOLYDUVAL Tantalus A 150

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPHC150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -45 °C  
Flash Point COC : 262 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Tantalus A 150 LF

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 19 mm<sup>2</sup>/s  
Viscosity Index : 147  
Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -45 °C  
Flash Point COC : 262 °C  
Foam Properties : 5/10/5 0/0/0

The product contains a high volume of friction modifiers.

## MOLYDUVAL Tantalus A 150 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 15 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 880 kg/m<sup>3</sup>  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -45 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability micropitting test : > 10 Grade  
Corrosion Protection Steel 24 h : pass -  
Corrosion Protection steel 24h : pass -

## MOLYDUVAL Tantalus A 1500

### Synthetic High Temperature Lubrication Oil

A high-viscosity synthetic lubricating oil based on polyalphaolefin (PAO) for a wide range of applications in the area of gear and chain lubrication. In addition to good high

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1500 mm<sup>2</sup>/s  
Viscosity 100°C : 139 mm<sup>2</sup>/s

and low temperature stability, it offers excellent wear protection and good seal compatibility with many commonly used elastomers. Polyglycol oils, which are responsible for leaks in gearboxes in many areas, can often be replaced.

Viscosity Index : 200  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -30 °C  
Flash Point COC : > 280 °C

## MOLYDUVAL Tantalus A 220

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 220 mm<sup>2</sup>/s  
Viscosity Index : 177  
Density 40°C : 845 kg/m<sup>3</sup>  
Pour point : -39 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 220 LF

### Synthetic High Performance Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 26 mm<sup>2</sup>/s  
Viscosity Index : 154  
Density 40°C : 845 kg/m<sup>3</sup>  
Pour point : -39 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

The product contains a high volume of friction modifiers.

## MOLYDUVAL Tantalus A 220 ML

### Synthetic High Temperature Gear Oil

Fully synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP. Equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 24 mm<sup>2</sup>/s  
Viscosity Index : 134  
Density 40°C : 880 kg/m<sup>3</sup>  
Flash Point COC : 260 °C  
Pour point : -39 °C  
Foam Properties : 15/10/10 0/0/0

## MOLYDUVAL Tantalus A 220 WE

### Synthetic Gear Oil for Wind Power Gears

A high treated synthetic oil on PAO base for gear and bearing lubrication in wind turbines. It provides good high and low temperature stability excellent wear protection and good sealing compatibility with many elastomers commonly used.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 26 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 845 kg/m<sup>3</sup>  
Pour point : -39 °C

Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 32

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPHC32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 138  
Density 40°C : 830 kg/m<sup>3</sup>  
Pour point : -54 °C  
Flash Point COC : 224 °C  
Foam Properties : 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Tantalus A 320

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 39 mm<sup>2</sup>/s  
Viscosity Index : 156  
Density 40°C : 848 kg/m<sup>3</sup>  
Pour point : -33 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 320 LF

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 35 mm<sup>2</sup>/s  
Viscosity Index : 156  
Density 40°C : 848 kg/m<sup>3</sup>  
Pour point : -33 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

The product contains a high volume of friction modifiers.

## MOLYDUVAL Tantalus A 320 M

### Synthetic High Temperature Gear Oil with MoS2

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Contains molybdenum disulphide for reducing friction. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPFHC320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 35 mm<sup>2</sup>/s  
Viscosity Index : 156  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -33 °C  
Flash Point COC : 270 °C  
Foam Properties : 20/10/10 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 320 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 32 mm²/s  
Viscosity Index : 138  
Density 40°C : 880 kg/m³  
Flash Point COC : 258 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -39 °C  
Foam Properties : 20/10/20 0/0/0  
Lubricating Ability micropitting test : > 10 Grade  
Corrosion Protection Steel 24 h : pass -  
Corrosion Protection steel 24h : pass -

## MOLYDUVAL Tantalus A 3200

### Synthetic High Temperature Gear Oil

A 100% synthetic high viscosity PAO based, high treated lubrication oil for high temperature gears, bearings, chains. Besides of it's excellent high temperature stability it guarantees good wear and corrosion protection. Qualified also for slides and surfaces at high temperatures. Very good seal compatibility. May replace high viscosity polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 3200 ISO-VG  
Viscosity 40°C : 3000 mm²/s  
Viscosity 100°C : 160 mm²/s  
Viscosity Index : 160  
Density 40°C : 870 kg/m³  
Pour point : -10 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Tantalus A 460

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 47 mm²/s  
Viscosity Index : 158  
Density 40°C : 850 kg/m³  
Pour point : -33 °C  
Flash Point COC : 270 °C  
Foam Properties : 20/10/10 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 460 LF

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 47 mm²/s  
Viscosity Index : 159  
Density 40°C : 860 kg/m³  
Pour point : -27 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

The product contains a high volume of friction modifiers.

## MOLYDUVAL Tantalus A 460 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 42,2 mm²/s  
Viscosity Index : 146  
Density 40°C : 880 kg/m³  
Flash Point COC : 264 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -36 °C  
Foam Properties : 20/30/10 0/0/0  
Lubricating Ability micropitting test : > 10 Grade  
Corrosion Protection Steel 24 h : pass -  
Corrosion Protection steel 24h : pass -

## MOLYDUVAL Tantalus A 68

### Synthetic High Temperature Gear Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPHC68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 70 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 200  
Density 40°C : 860 kg/m³  
Pour point : -45 °C  
Flash Point COC : 170 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 68 M

### Synthetic High Temperature Gear Oil with MoS2

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Contains molybdenum disulphide for reducing friction. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Name : CLPFSHC68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 10,3 mm²/s  
Viscosity Index : 138  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 254 °C

## MOLYDUVAL Tantalus A 68 ML

### Synthetic High Temperature Gear Oil

Synthetic industrial gear oil based on PAO / mineral oil with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : 134  
Density 40°C : 880 kg/m³



under most extreme operating conditions.

## MOLYDUVAL Tantalus A 680

### Synthetic High Temperature Lubrication Oil

A 100% synthetic PAO based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. Very good seal compatibility. May replace polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : ca. 680 mm<sup>2</sup>/s  
Viscosity 100°C : 64 mm<sup>2</sup>/s  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -24 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus A 680 ML

### Synthetic High Temperature Gear Oil

synthetic industrial gear oil based on PAO with highly effective additives, which ensure the use in industrial transmissions over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and in the building industry. Exceeds DIN 51517, part 3, CLP as well as the highest stage in the grey mark test FVA 54. Is equipped with a modern additive technology offering long time use under heavy conditions and wear protection under most extreme operating conditions.

Base Fluid : PAO  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m<sup>3</sup>  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -36 °C  
Foam Properties : 20/30/10 0/0/0  
Lubricating Ability micropitting test : > 10 Grade  
Corrosion Protection Steel 24 h : pass -  
Corrosion Protection steel 24h : pass -

## MOLYDUVAL Tantalus A 6800

### Synthetic High Temperature Gear Oil

A 100% synthetic high viscosity PAO based, high treated lubrication oil for high temperature gears, bearings, chains. Besides of it's excellent high temperature stability it guarantees good wear and corrosion protection. Qualified also for slides and surfaces at high temperatures. Very good seal compatibility. May replace high viscosity polyglycol gear oils.

Base Fluid : PAO  
Viscosity Class : 6800 ISO-VG  
Viscosity 40°C : 6800 mm<sup>2</sup>/s  
Viscosity Index : 180  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -6 °C

## MOLYDUVAL Tantalus AM 150

### Synthetic Gear Oil

A highly treated synthetic gear oil on Polyalphaolefine (PAO) - base for a wide area of applications in the field of gear lubrication. It provides good high and low temperature stability excellent wear protection and good sealing compatibility with many elastomers commonly used.

Base Fluid : PAO  
Name : CLPHC150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 16,5 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -39 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus AM 220

### Synthetic Gear Oil

A highly treated synthetic gear oil on Polyalphaolefine (PAO) - base for a wide area of applications in the field of gear lubrication. It provides good high and low temperature stability excellent wear protection and good sealing compatibility with many elastomers commonly used.

Base Fluid : PAO  
Name : CLPHC220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -36 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus AM 320

### Synthetic Gear Oil

A highly treated synthetic gear oil on Polyalphaolefine (PAO) - base for a wide area of applications in the field of gear lubrication. It provides good high and low temperature stability excellent wear protection and good sealing compatibility with many elastomers commonly used.

Base Fluid : PAO  
Name : CLPHC320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 29 mm<sup>2</sup>/s  
Viscosity Index : 122  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -33 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus E 150 B

### Synthetic High Performance Gear Oil

Fully synthetic high-performance lubricant for heavily loaded gearboxes. Provides protection for gears and bearings that run under extreme conditions. A modern additive combination ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on synthetic esters and therefore has a low pour point, high VI and a very high temperature resistance.

Base Fluid : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 20 mm<sup>2</sup>/s  
Viscosity Index : 165  
Density 40°C : 910 kg/m<sup>3</sup>  
Pour point : -33 °C

## MOLYDUVAL Tantalus E 320 LC

### Synthetic High Temperature Gear Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 25 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 260 °C  
Flash Point COC : 270 °C  
Pour point : -36 °C

## MOLYDUVAL Tantalus EA 100



## MOLYDUVAL Tantalus EA 100 T

### Special Lubrication Fluid with PTFE

A high performance lubrication oil for enclosed gears, bearings, chains or similar applications. Contains Polyterafluoroethylene (PTFE) for reduced friction and emergency lubrication. The microfine PTFE particles smoothes surfaces and increase metal treatment properties. It's a relatively stable suspension.

Base Fluid : Ester + PAO  
Name : CLPEF100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : -15 -> +155 °C  
Pour point : -24 °C  
Flash Point COC : 225 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus EA 150

### Synthetic High Performance Gear Oil

Vollsynthetischer Hochleistungs-Schmierstoff für hochbelastete Getriebe. Bietet Schutz für Getriebe und Lager, die unter extremen Bedingungen laufen. Eine moderne Additiv-Kombination sichert guten Korrosions-, Verschleiß- und Oxidationsschutz, einen niedrigen Reibwert und ein gutes Demulgiervermögen. Das Basisöl basiert auf einer PAO/Ester Mischung und verfügt daher über einen niedrigen Pourpoint, einen hohen VI und eine sehr hohe Temperaturbeständigkeit.

Base Fluid : PAO+Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 150  
Density 40°C : 860 kg/m³  
Pour point : -40 °C  
Flash Point COC : 240 °C  
Wear Protection FZG test : 12 Grade

## MOLYDUVAL Tantalus EA 220

### Synthetic High Performance Gear Oil

Fully synthetic high performance lubricant for highly loaded gears. Provides protection for gears and bearings that run under extreme conditions. A modern additive package ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on a PAO / ester mixture and therefore has a low pour point, high VI and a very high temperature resistance.

Base Fluid : PAO+Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 24 mm²/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m³  
Pour point : -36 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Tantalus EA 260

### Synthetic High Performance Gear Oil

Fully synthetic high performance lubricant for highly loaded gears. Provides protection for gears and bearings that run under extreme conditions. A modern additive package ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on a PAO / ester mixture and therefore has a low pour point, high VI and a very high temperature resistance.

Base Fluid : PAO+Ester  
Viscosity Class : 260 ISO-VG  
Viscosity 40°C : 260 mm²/s  
Viscosity 100°C : 25 mm²/s  
Viscosity Index : 140  
Density 40°C : 880 kg/m³  
Pour point : -33 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Tantalus EA 320

### Synthetic High Performance Gear Oil

Fully synthetic high performance lubricant

Base Fluid : PAO+Ester

for highly loaded gears. Provides protection for gears and bearings that run under extreme conditions. A modern additive package ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on a PAO / ester mixture and therefore has a low pour point, high VI and a very high temperature resistance.

Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 30 mm²/s  
Viscosity Index : 140  
Density 40°C : 880 kg/m³  
Pour point : -36 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Tantalus EA 460

### Synthetic High Performance Gear Oil

Fully synthetic high performance lubricant for highly loaded gears. Provides protection for gears and bearings that run under extreme conditions. A modern additive package ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on a PAO / ester mixture and therefore has a low pour point, high VI and a very high temperature resistance.

Base Fluid : PAO / Ester  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 38 mm²/s  
Viscosity Index : 140  
Density 40°C : 890 kg/m³  
Pour point : -36 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Tantalus EA 680

### Synthetic High Performance Gear Oil

Fully synthetic high performance lubricant for highly loaded gears. Provides protection for gears and bearings that run under extreme conditions. A modern additive package ensures good corrosion, wear and oxidation protection, a low coefficient of friction and good demulsification. The base oil is based on a PAO / ester mixture and therefore has a low pour point, high VI and a very high temperature resistance.

Base Fluid : PAO / Ester  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm²/s  
Viscosity Index : 150  
Density 40°C : 890 kg/m³  
Pour point : -30 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Tantalus ET 460

### Synthetic High Temperature Gear Oil

Special Lubricant with good lubrication protection and very good low and high temperature properties. The suitable lubricant for high temperature gears, bearings, and chains. Besides of it's excellent high temperature stability it offers relative low evaporation and low residues.

Base Fluid : Ester  
Name : ELPT460  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 480 mm²/s  
Viscosity 100°C : 35 mm²/s  
Viscosity Index : 120  
Density 40°C : 940 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -30 °C

## MOLYDUVAL Tantalus GP 150 PP

### Synthetic High Performance Gear Oil

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 190  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +210 °C

Pour point : -25 °C  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## **MOLYDUVAL Tantalus GP 220 PP**

### **Synthetic High Performance Gear Oil**

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 190  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +210 °C  
Pour point : -25 °C  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## **MOLYDUVAL Tantalus GW 1000 P**

### **Synthetic Gear Oil**

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : CLPPG1000  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1050 mm²/s  
Viscosity 100°C : 178 mm²/s  
Viscosity Index : 289  
Density 40°C : 1030 kg/m³  
Temperature Range : -20 -> +200 °C  
Pour point : -36 °C  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.  
All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Tantalus Mineral Gear Oils

## MOLYDUVAL Tantalus M 100 T

### Special PTFE Oil

as before, but in ISO VG 22

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 110  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 170 °C  
Pour point : -27 °C  
Flash Point COC : 240 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1000 ML

### High Performance Gear Oil

as before, but in ISO VG 1500

Base Fluid : Min  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 890 kg/m<sup>3</sup>

## MOLYDUVAL Tantalus M 1200 M

### Industrial Gear Oil with MoS<sub>2</sub>

as before, but in ISO VG 1500

Base Fluid : Min  
Name : ISO-L-CKE1000/1500  
Name : CLP1000/1500  
Viscosity 40°C : 1200 mm<sup>2</sup>/s  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -0 -> +250 °C  
Pour point : -9 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Tantalus M 22 TX

### Special PTFE Oil

as before, but in ISO VG 22

Name : CLPF22  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 180 °C  
Content PTFE : 2,2 %

## MOLYDUVAL Tantalus M 320 LC

### Circulating and Bearing Oil

Circulating, bearing and spindle oil for high demands, consisting of high quality, highly refined, mineral base oils in connection with a balanced additive content.

Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 290 °C  
Color : 2,5

## MOLYDUVAL Tantalus M 46 ML

### Gear- and Bearing Oil with EP

as before, but in ISO VG 100

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity 100°C : 9 mm<sup>2</sup>/s  
Viscosity Index : 180  
Density 40°C : 870 kg/m<sup>3</sup>  
Flash Point COC : 240 °C  
Pour point : -33 °C

## MOLYDUVAL Tantalus M 220 P

### Gear- and Bearing Oil with EP

High-quality industrial gear oil manufactured on the basis of selected mineral oil

Base Fluid : Min  
Name : ISO-L-CKC220

raffinates and an optimally coordinated, highly effective additive combination. Suitable for almost all types of closed industrial gears for dipping and circulation

Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 97  
Density 40°C : 890 kg/m³  
Temperature Range : -10 -> + 100 °C  
Pour point : -21 °C  
Flash Point COC : 245 °C  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## MOLYDUVAL Tantalus M 320 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 320

Base Fluid : Min  
Name : CLP 320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 320 mm²/s  
Viscosity 100°C : 24,2 mm²/s  
Density 40°C : 900 kg/m³  
Pour point : -18 °C  
Flash Point COC : 245 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 460 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 460

Base Fluid : Min  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 31 mm²/s  
Viscosity Index : 95  
Density 40°C : 910 kg/m³  
Temperature Range : -10 -> + 100 °C  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 150 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 150

Base Fluid : Min  
Name : ISO-L-CKC150  
Name : CLP150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14,5 mm²/s  
Density 40°C : 890 kg/m³  
Pour point : -20 °C  
Flash Point COC : 250 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 32 P

### Gear Oil

as before, but in ISO VG 100

Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,4 mm²/s  
Density 40°C : 878 kg/m³  
Pour point : -24 °C  
Flash Point COC : 185 °C  
Colour ASTM : 3

## MOLYDUVAL Tantalus M 100 P

### Gear- and Bearing Oil with EP

High-quality industrial gear oil manufactured on the basis of selected mineral oil raffinates and an optimally coordinated, highly effective additive combination. Suitable for almost all types of closed industrial gears for dipping and circulation lubrication.

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 97  
Density 40°C : 890 kg/m³  
Temperature Range : -20 -> + 170 °C  
Pour point : -27 °C  
Flash Point COC : 240 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 68 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 68

Base Fluid : Min  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 8,7 mm²/s  
Viscosity Index : 98  
Density 40°C : 880 kg/m³  
Temperature Range : -20 -> + 120 °C  
Pour point : -30 °C  
Flash Point COC : 230 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 22 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 22

Base Fluid : Min  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,3 mm²/s  
Density 40°C : 870 kg/m³  
Temperature Range : -15 -> + 80 °C  
Flash Point COC : 200 °C  
Ash Loss : -30 %

## MOLYDUVAL Tantalus M 2200 ML

### Gear- and Bearing Oil with EP

as before, but in ISO VG 2200

Base Fluid : Min  
Viscosity Class : 2200 ISO-VG  
Viscosity 40°C : 2200 mm²/s  
Viscosity Index : 87  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 4600 ML

### Gear- and Bearing Oil with EP

as before, but in ISO VG 4600

Base Fluid : Min  
Viscosity Class : 4600 ISO-VG  
Viscosity 40°C : 4600 mm²/s  
Viscosity Index : 87  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 680 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 680

Base Fluid : Min  
Viscosity Class : 680 ISO-VG

Viscosity 40°C : 690 mm²/s  
Viscosity 100°C : 40 mm²/s  
Viscosity Index : 95  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> + 100 °C  
Pour point : -12 °C  
Flash Point COC : 240 °C  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## MOLYDUVAL Tantalus M 3200 ML

### Industrial Gear Oil with EP

as before, but in ISO VG 3200

Base Fluid : Min  
Viscosity Class : 3200 ISO-VG  
Viscosity 40°C : 3200 mm²/s  
Viscosity Index : 87  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 1000 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 1000

Base Fluid : Min  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 46 mm²/s  
Viscosity Index : 87  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 46 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 46

Base Fluid : Min  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 6,7 mm²/s  
Viscosity Index : 98  
Density 40°C : 880 kg/m³  
Temperature Range : -20 -> + 120 °C  
Pour point : -30 °C  
Flash Point COC : 220 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1500 P

### Gear- and Bearing Oil with EP

as before, but in ISO VG 1500

Base Fluid : Min  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1500 mm²/s  
Viscosity Index : 87  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 220 M

### Industrial Gear Oil with MoS2

A high viscous gear oil for enclosed gears subject to severe applications, such as extreme pressure, shock loads, high temperatures and water con-tamination. It may be used in industrial gears at slow to moderate speeds.

Base Fluid : Min  
Name : ISO-L-CKE220  
Name : CLPF220  
Viscosity Class : 220 ISO-VG  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> +170 °C  
Pour point : -18 °C

The high quality of enables gears to run better and last longer. Performance is assured because it is especially adhesive with excellent film forming capabilities. Molybdenum Disulphide provides extra protection against friction and wear. The MoS2 smooth surfaces and improves pressure load.

Flash Point COC : 240 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 320 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 320

Base Fluid : Min  
Name : ISO-L-CKE320  
Name : CLPF320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> +170 °C  
Pour point : -18 °C  
Flash Point COC : 248 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 460 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 460

Name : ISO-L-CKE460  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 31 mm²/s  
Viscosity Index : 96  
Density 40°C : 920 kg/m³  
Pour point : -15 °C  
Flash Point COC : 250 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 150 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 150

Name : ISO-L-CKE150  
Name : CLPF150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -12 -> +170 °C  
Pour point : -20 °C  
Flash Point COC : 235 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 68 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 68

Base Fluid : Min  
Name : ISO-L-CKE68  
Name : CLPF68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -20 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 230 °C  
Wear Protection FZG Test A/8.3/90 : >12 Grade



## MOLYDUVAL Tantalus M 32 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 32

Base Fluid : Min  
Name : ISO-L-CKE32  
Name : CLPF32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 220 °C  
Wear Protection FZG Test A/8.3/90 : >12 Grade

Density 40°C : 890 kg/m³  
Temperature Range : -20 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 230 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1000 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 1000

Base Fluid : Min  
Name : ISO-L-CKE1000  
Name : CLPF1000  
Viscosity Class : 1000 ISO-VG  
Density 40°C : 910 kg/m³  
Temperature Range : -5 -> +1000 °C  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1500 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 1500

Base Fluid : Min  
Name : ISO-L-CKE1500  
Name : ELP1500  
Viscosity Class : 1500 mm²/s  
Density 40°C : 930 kg/m³  
Temperature Range : -0 -> +250 °C  
Pour point : -9 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Tantalus M 100 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 100

Base Fluid : Min  
Name : ISO-L-CKE100  
Name : CLPF100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 230 °C  
Wear Protection FZG Test A/8.3/90 : >12 Grade

## MOLYDUVAL Tantalus M 46 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 46

Base Fluid : Min  
Name : ISO-L-CKE46  
Name : CLPF46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s

## MOLYDUVAL Tantalus M 680 M

### Industrial Gear Oil with MoS2

as before, but in ISO VG 680

Base Fluid : Min  
Name : ISO-L-CKE680  
Name : CLPF680  
Viscosity Class : 680 ISO-VG  
Density 40°C : 920 kg/m³  
Temperature Range : -20 -> +150 °C

## MOLYDUVAL Tantalus MPM 4600 M

### Tacky Gear Lubricant with MoS2

as before, but in ISO VG 4600

Base Fluid : Ester  
Name : ISO-L-CKE  
Viscosity 40°C : > 1000 mm²/s  
Viscosity Index : 150  
Density 40°C : 910 kg/m³  
Temperature Range : -0 -> +250 °C  
Pour point : -9 °C

## MOLYDUVAL Tantalus M 220 T

### Special PTFE Oil

A high performance lubrication oil for enclosed gears, bearings, chains or similar applications. Contains Polyterafluoroethylene (PTFE) for reduced friction and emergency lubrication. The microfine PTFE particles smoothes surfaces and increase metal treatment properties. It's a relatively stable suspension. Settling down could be returned by easy mixing

Base Fluid : Min  
Name : CLPF220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> +170 °C  
Pour point : -18 °C  
Flash Point COC : 240 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

Contains highly effective additives, which ensure the use in industrial gears over long times and under critical conditions. Suitable for the lubrication of industrial gears in steel and mining industry and for building equipment.

## MOLYDUVAL Tantalus M 22 T

### Special PTFE Oil

as before, but in ISO VG 22

Name : CLPF22  
Density 40°C : 880 kg/m³  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 180 °C  
Content PTFE : 4 %

## MOLYDUVAL Tantalus M 32 T

### Special PTFE Oil

as before, but in ISO VG 32

Name : CLPF32

Viscosity 40°C : 32 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 160 °C  
Fineness Ø : Min µm

## MOLYDUVAL Tantalus M 46 T

### Special PTFE Fluid

as before, but in ISO VG 46

Name : CLPF46  
Viscosity 40°C : 46 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Tantalus M 68 T

### Special PTFE Oil

as before, but in ISO VG 68

Name : CLPF68  
Viscosity 40°C : 68 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -15 -> +150 °C  
Pour point : -30 °C  
Flash Point COC : 160 °C  
Fineness Ø : Min µm

## MOLYDUVAL Tantalus M 220 ML

### High quality gear oil for shock load conditions

A heavy duty gear oil for extreme loads. Very strong EP treated (extreme pressure), manufactured of high refined base oils with special cleared additives. Special additives provide extraordinary extra pressure, anti-wear, lubricity and boundary film lubrication with a profound effect on wear characteristics. Suitable for almost all types of closed industrial gears for dipping and circulation lubrication, also for normally loaded sliding and antifriction bearing, joints, guidance.

Base Fluid : Min  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 890 kg/m³  
Temperature Range : -20 -> +80 °C  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -12 °C  
Foam Properties : 20/10/20 0/0/0  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 320 ML

### Heavy Duty Industrial Gear Oil

as before, but in ISO VG 320

Base Fluid : Min  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 98  
Density 40°C : 900 kg/m³  
Temperature Range : -20 -> +80 °C  
Flash Point COC : 218 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 460 ML

### High quality gear oil for shock load conditions

as before, but in ISO VG 460

Base Fluid : Min  
Viscosity Class : 460 ISO-VG

Viscosity 40°C : 30,5 mm²/s  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 100  
Density 40°C : 900 kg/m³  
Temperature Range : -20 -> +80 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 100 ML

### Gear- and Bearing Oil with EP

as before, but in ISO VG 100

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 96  
Density 40°C : 900 kg/m³  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -15 °C  
Lubricating Ability micropitting test : > 10 Grade  
Corrosion Protection 24h : pass -  
Corrosion Protection Copper 3h 100°C : pass Grade

## MOLYDUVAL Tantalus M 150 PLF

### High quality gear oil for shock load conditions

as before, but in ISO VG 150

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -20 -> +80 °C  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 14 Grade  
Pour point : -24 °C

## MOLYDUVAL Tantalus M 680 ML

### High quality gear oil for shock load conditions

as before, but in ISO VG 680

Base Fluid : Min  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 40 mm²/s  
Viscosity 40°C : 680 mm²/s  
Viscosity Index : 100  
Density 40°C : 910 kg/m³  
Temperature Range : -10 -> +80 °C  
Pour point : -15 °C  
Flash Point COC : 240 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 1500 ML

### High Performance Gear Oil

as before, but in ISO VG 1500

Base Fluid : Min  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1500 mm²/s  
Viscosity Index : 130  
Density 40°C : 890 kg/m³

## MOLYDUVAL Tantalus M 220 PS

### High quality gear oil for shock load conditions

A premium heavy duty gear oil for extreme loads. Very strong EP treated (extreme pressure), manufactured of high refined base oils with special cleared additives. Special additives provide extraordinary extra pressure, anti-wear, lubricity and boundary film lubrication with a profound effect on wear characteristics. Suitable for almost all types of closed industrial gears for bath, splash or circulation lubrication, also for high loaded bearings, joints, guidance.

Base Fluid : Min  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 100  
Density 40°C : 900 kg/m³  
Temperature Range : -20 -> +100 °C  
Flash Point COC : 220 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 320 PS

### High quality gear oil for shock load conditions

as before, but in ISO VG 320

Base Fluid : Min  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 100  
Density 40°C : 900 kg/m³  
Temperature Range : -20 -> +100 °C  
Flash Point COC : 218 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 100 PS

### Heavy Duty Industrial Gear Oil

as before, but in ISO VG 100

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 100  
Density 40°C : 890 kg/m³  
Temperature Range : -20 -> +80 °C  
Flash Point COC : 210 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus M 150 PS

### Heavy Duty Industrial Gear Oil

as before, but in ISO VG 150

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 100  
Density 40°C : 890 kg/m³  
Temperature Range : -20 -> +80 °C  
Flash Point COC : 220 °C  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus ME 10 P

### Gear- and Bearing Oil with EP

A low viscous, heavy duty multi purpose lubrication oil for high speed spindles and bearings.

Is high EP treated and manufactured of high refined base oils with special cleared additives.

Base Fluid : Min, Ester  
Name : CLP10  
Viscosity Class : 10/15 ISO-VG  
Viscosity 40°C : 12 mm²/s  
Density 40°C : 860 kg/m³  
Temperature Range : -10 -> +80 °C  
Flash Point COC : 170 °C

## MOLYDUVAL Tantalus ME 15 P

### Gear- and Bearing Oil with EP

A low viscous, heavy duty multi purpose lubrication oil for high speed spindles and bearings.

Is high EP treated and manufactured of high refined base oils with special cleared additives.

Base Fluid : Min, Ester  
Viscosity Class : ca. 15 ISO-VG  
Viscosity 40°C : 14 mm²/s  
Density 40°C : 860 kg/m³  
Temperature Range : -10 -> +80 °C  
Flash Point COC : 165 °C

## MOLYDUVAL Tantalus M 32 PZF

### Heavy Duty Industrial Gear Oil

A heavy duty gear oil for extreme loads. Very strong EP treated (extreme pressure), manufactured of high refined base oils with special cleared additives. Special additives provide extraordinary extra pressure, anti-wear, lubricity and boundary film lubrication with a profound effect on wear characteristics.

Conforms to lubricating oils CLP according to DIN 51517, part3. The viscosity classification corresponds to the ISO classification. Suitable for almost all types of closed industrial gears for dipping and circulation lubrication, also for normally loaded sliding and antifriction bearing, joints, guidance.

Base Fluid : Min  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 97  
Density 40°C : 890 kg/m³  
Temperature Range : -15 -> +80 °C  
Flash Point COC : 208 °C  
Ash Loss : -30 %  
Wear Protection FZG test : > 12 Grade

## MOLYDUVAL Tantalus MO 1000 LR

### Industrial Gear Oil with MoS2

A molybdenum disulfide (MoS2) gearbox and bearing oil for the highest demands. It reduces friction and ensures emergency running characteristics. The finely divided MoS2 smooth surfaces and improve the pressure absorption capacity. Suitable for use in mechanical industrial transmissions over long periods of use even under critical conditions, for the lubrication of industrial drives in metallurgical plants, in mining and in the construction industry.

Base Fluid : Min  
Name : CLPF1000  
Viscosity Class : 1000 ISO-VG  
Density 40°C : 910 kg/m³  
Temperature Range : -5 -> +1000 °C  
Pour point : -12 °C  
Flash Point COC : 255 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1000 H

### High Performance Gear Oil

A semi synthetic, strongly treated high pressure lubricant for open gear wheels. It offers a very strong adhesive strength apart from excellent water resistance and outstanding wear resistance. Forms on the metal surfaces a strong and tacky film, which decreases the friction and improves hydrodynamic - the closed lubricating film.

Base Fluid : Min + Syn  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> 150 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Tantalus M 150 PHZ

### Gear- and Bearing Oil with EP

High-quality industrial gear oil manufactured on the basis of selected mineral oil raffinates and an optimally coordinated, highly effective additive combination.

Suitable for closed industrial gears for dipping and circulation lubrication, also for normally loaded sliding and antifriction bearing, joints.

Base Fluid : Min  
Name : ISO-L-CKC150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 14,5 mm<sup>2</sup>/s  
Density 40°C : 890 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : 250 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 1500 PHZ

### Semifluid Gel for Gears

A gear and bearing oil with strong adhesion for maximum loads. Heavy additive treated, for use in industrial gears over long periods even under critical conditions. Is equipped with a modern additive technology with outstanding oxidation and thermal stability and prevents scuffing under the most extreme operating conditions.

Base Fluid : Min  
Viscosity Class : 1500 ISO-VG  
Density 40°C : 900 kg/m<sup>3</sup>  
Temperature Range : -10 -> +120 °C  
Pour point : -12 °C  
Flash Point COC : > 200 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus M 68 ML

### Gear- and Bearing Oil with EP

as before, but in ISO VG 100

Base Fluid : Min  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity Index : 98  
Density 40°C : 880 kg/m<sup>3</sup>  
Flash Point COC : 220 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Pour point : -21 °C

## MOLYDUVAL Tantalus MPM 10 T

### Heavy Duty Industrial Gear Oil

High-viscosity industrial gear oil manufactured on the basis of selected mineral oil raffinates, polymers, and an optimally coordinated, highly effective additive combination.

Suitable for slow running industrial gears with dipping lubrication, also for normally loaded sliding and antifriction bearing, joints, guidance in the temperature range to 100°C. May reduce leakage quantity in comparison to lower viscosities.

Base Fluid : Min, Polymers  
Viscosity 40°C : 10000 mm<sup>2</sup>/s  
Viscosity Index : 160  
Density 40°C : 920 kg/m<sup>3</sup>  
Flash Point COC : > 200 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

## MOLYDUVAL Tantalus MPM 10 TM

### Synthetic High Temperature Chain Lubricant

Fully synthetic, highly viscous chain fluid with molybdenum disulfide. Provides excellent water resistance and excellent wear protection. Forms a stable lubrication film on the metal surfaces, which reduces friction

Base Fluid : SHC Polymer  
Viscosity Base Fluid, 100°C : ca. 600 mm<sup>2</sup>/s  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -10 -> +180 °C  
Temperature Range dry lubrication, solid lubrication :

and improves the hydrodynamics. Beside chains also suitable for bearings, gears, sliding surfaces. In the high-temperature range, the synthetic hydrocarbon carrier vaporizes relatively residue-free and the solids form a wear-resistant, high-temperature-resistant dry lubrication film.

300 °C  
Pour point : -12 °C  
Flash Point COC : > 160 °C

## MOLYDUVAL Tantalus MPM 15 T

### Heavy Duty Industrial Gear Oil

High-viscosity industrial gear oil manufactured on the basis of selected mineral oil raffinates, polymers, and an optimally coordinated, highly effective additive combination.

Suitable for slow running industrial gears with dipping lubrication, also for normally loaded sliding and antifriction bearing, joints, guidance in the temperature range to 100°C. May reduce leakage quantity in comparison to lower viscosities.

Base Fluid : Min, Polymers  
Viscosity 40°C : 15000 mm<sup>2</sup>/s  
Viscosity Index : 160  
Density 40°C : 870 kg/m<sup>3</sup>  
Flash Point COC : > 180 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Soraja

## Gear Oils for Food Industry

### MOLYDUVAL Soraja GAM 1000

#### Gear Oil for Food Industry

Base Fluid : Paraffin + PAO  
 Viscosity Class : 1000 ISO-VG  
 Viscosity 40°C : 1000 mm²/s  
 Viscosity Index : 115  
 Density 40°C : 880 kg/m³  
 Temperature Range : -12 -> 120 °C  
 Pour point : -20 °C  
 Flash Point COC : ca. 180 °C  
 Wear Protection FZG Test A/8.3/90 : 12 Grade

### MOLYDUVAL Soraja GE 100

#### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade esters it offers a top high temperature stability and low residue in case of overheating. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
 Viscosity Class : 100 ISO-VG  
 Viscosity 40°C : 100 mm²/s  
 Viscosity Index : 190  
 Density 40°C : 970 kg/m³  
 Temperature Range : -40 -> +230 °C  
 Pour point : -45 °C  
 Flash Point COC : 270 °C

### MOLYDUVAL Soraja GE 220

#### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade esters it offers a top high temperature stability and low residue in case of overheating. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and

Base Fluid : Ester  
 Viscosity Class : 220 ISO-VG  
 Viscosity 40°C : 220 mm²/s  
 Viscosity Index : 190  
 Density 40°C : 920 kg/m³  
 Temperature Range : -40 -> +230 °C  
 Pour point : -45 °C  
 Flash Point COC : 270 °C

cleanness.

### MOLYDUVAL Soraja GGO 150

#### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
 Name : CLPPG150  
 Viscosity Class : 150 ISO-VG  
 Viscosity 40°C : 150 mm²/s  
 Density 15°C : 960 kg/m³  
 Pour point : -30 °C

### MOLYDUVAL Soraja GGO 320

#### Food-Grade High Temp Gear Fluid

Base Fluid : PG  
 Name : CLPPG320  
 Viscosity Class : 320 ISO-VG  
 Viscosity 40°C : 52 mm²/s  
 Pour point : -30 °C

### MOLYDUVAL Soraja GW 100

#### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
 Name : PGLP100  
 Viscosity Class : 100 ISO-VG  
 Viscosity 40°C : 100 mm²/s  
 Density 40°C : 1050 kg/m³  
 Temperature Range : -20 -> +190 °C  
 Pour point : -39 °C  
 Flash Point PMCC, base oil : > 250 °C

## MOLYDUVAL Soraja GA 100 L

### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 15,8 mm²/s  
Viscosity Index : 167  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja GA 100 T

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness. Contains Polyterafluoroethylene for reduced friction and emergency lubrication.

Base Fluid : PAO  
Name : CLPHC100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 14 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Pour point : -48 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja GA 100 W

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 13,4 mm²/s  
Viscosity Index : 134  
Density 40°C : 840 kg/m³

## MOLYDUVAL Soraja GA 1000 L

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 85 mm²/s  
Viscosity Index : 190  
Density 40°C : 860 kg/m³  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 150 L

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 155  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja GA 150 P

### Food-Grade Gear Fluid

A half synthetic industrial gear and lubrication fluid with good stability and wear protection. Based on modern Food-Grade PAO in combination with pharmaceutical white oils, it offers good seal compatibility, good corrosion protection and a good wear resistance. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO, White Oil  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 135  
Density 40°C : 870 kg/m³  
Pour point : -40 °C  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja GA 150 T

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness. Contains Polyterafluoroethylene for reduced friction and emergency lubrication.

Base Fluid : PAO  
Name : ISO-L-CKS150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 155  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja GA 150 W

### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. This is a special water mixable version.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 155  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0

## MOLYDUVAL Soraja GA 1500 L

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1400 mm²/s  
Viscosity 100°C : 105 mm²/s  
Viscosity Index : 170  
Density 40°C : 860 kg/m³  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 220 AS

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 220 HZ

### Synthetic Food Grade Lubrication Oil

A synthetic industrial tool machinery fluid with good tackiness, high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 220 L

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

and cleanness.

## MOLYDUVAL Soraja GA 220 P

### Food-Grade Gear Fluid

A half synthetic industrial gear and lubrication fluid with good stability and wear protection. Based on modern Food-Grade PAO in combination with pharmaceutical white oils, it offers good seal compatibility, good corrosion protection and a good wear resistance. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO, White Oil  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 135  
Density 40°C : 870 kg/m³  
Pour point : -40 °C  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja GA 220 T

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness. Contains Polyterafluoroethylene for reduced friction and emergency lubrication.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 26,9 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 220 W

### Synthetic Food Grade Lubrication Oil

A fully synthetic special liquid based on polyalfaolefin for gears, chains, circulation systems and hydraulic systems in the food industry. It is a special type that has good detergent properties and which can also be rinsed off with water and can also emulsify small amounts of dirt and water. Compared to conventional lubricants, mineral oil, it only contains ingredients that are approved for lubrication in the food industry in accordance with American guidelines.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 320 L

### Synthetic Food Grade Gear Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalfaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 150  
Density 40°C : 845 kg/m³  
Pour point : -30 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %



and therefore represents a step to more safety and cleanness.

## MOLYDUVAL Soraja GA 320 P

### Synthetic Food Grade Gear Oil

A half synthetic industrial gear and lubrication fluid with good stability and wear protection. Based on modern Food-Grade PAO in combination with pharmaceutical white oils, it offers good seal compatibility, good corrosion protection and a good wear resistance. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO, White Oil  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 135  
Density 40°C : 870 kg/m³  
Pour point : -40 °C  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja GA 320 T

### Synthetic Food Grade Gear Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 150  
Density 40°C : 845 kg/m³  
Pour point : -30 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Soraja GA 3200 L

### Synthetic High Temperature Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 3200 ISO-VG  
Viscosity 40°C : 3000 mm²/s  
Viscosity 100°C : 160 mm²/s  
Viscosity Index : 160  
Density 40°C : 870 kg/m³  
Pour point : -10 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Soraja GA 3200 T

### Synthetic Food Grade Gear Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry

Base Fluid : PAO  
Viscosity Class : 3200 ISO-VG  
Viscosity 40°C : 3000 mm²/s  
Viscosity 100°C : 160 mm²/s  
Viscosity Index : 160  
Density 40°C : 870 kg/m³  
Pour point : -10 °C  
Flash Point COC : 210 °C

and therefore represents a step to more safety and cleanness.

## MOLYDUVAL Soraja GA 46 L

### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 138  
Density 40°C : 830 kg/m³  
Temperature Range : -50 -> +120 °C  
Pour point : -54 °C  
Flash Point COC : 250 °C  
Foam Properties : 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 460 HZ

### Synthetic Food Grade Lubrication Oil

A synthetic industrial tool machinery fluid with good tackiness, high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 160  
Density 40°C : 850 kg/m³  
Pour point : -27 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 460 L

### Synthetic Food Grade Gear Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 170  
Density 40°C : 840 kg/m³  
Pour point : -27 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 460 LX

### Synthetic Food Grade Gear Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 170  
Density 40°C : 840 kg/m³  
Pour point : -27 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

## MOLYDUVAL Soraja GA 460 P

### Food-Grade Gear Fluid

A half synthetic industrial gear and lubrication fluid with good stability and wear protection. Based on modern Food-Grade PAO in combination with pharmaceutical white oils, it offers good seal compatibility, good corrosion protection and a good wear resistance. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO, White Oil  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity Index : 135  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -40 °C  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja GA 460 T

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity Index : 160  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -27 °C  
Flash Point COC : 210 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 68 HZ

### Synthetic Food Grade Lubrication Oil

A synthetic industrial tool machinery fluid with good tackiness, high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity 100°C : 10 mm<sup>2</sup>/s  
Viscosity Index : 138  
Density 40°C : 840 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Pour point : -54 °C  
Flash Point COC : 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade  
Corrosion Protection copper : 1 B Grade

## MOLYDUVAL Soraja GA 68 L

### Synthetic Food Grade Lubrication Oil

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma

Base Fluid : PAO  
Name : CLPHC68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity 100°C : 11 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 840 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Pour point : -51 °C

industry and therefore represents a step to more safety and cleanness.

## MOLYDUVAL Soraja GA 680 L

### Synthetic Food Grade Lubrication Oil

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : ca. 680 mm<sup>2</sup>/s  
Viscosity 100°C : 64 mm<sup>2</sup>/s  
Density 40°C : 850 kg/m<sup>3</sup>  
Pour point : -24 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja GA 680 P

### Food-Grade Gear Fluid

A half synthetic industrial gear and lubrication fluid with good stability and wear protection. Based on modern Food-Grade PAO in combination with pharmaceutical white oils, it offers good seal compatibility, good corrosion protection and a good wear resistance. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : PAO, White Oil  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm<sup>2</sup>/s  
Viscosity Index : 135  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -30 °C  
Flash Point COC : 200 °C  
Lubricating Ability FZG Test, A/8.3/90 : 12 Grade

## MOLYDUVAL Soraja GA 680 T

## MOLYDUVAL Soraja GAM 100

### Gear Oil for Food Industry

Base Fluid : PAO + MWO  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 850 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Pour point : -33 °C  
Flash Point COC : > 200 °C

## MOLYDUVAL Soraja GAM 150

### Gear Oil for Food Industry

Base Fluid : PAO + MWO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 870 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Pour point : -30 °C  
Flash Point COC : > 200 °C



## **MOLYDUVAL Soraja GAM 220**

### **Gear Oil for Food Industry**

Base Fluid : PAO + MWO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 22 mm²/s  
Viscosity Index : 120  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +120 °C  
Flash Point COC : > 200 °C

## **MOLYDUVAL Soraja GAM 460**

### **Gear Oil for Food Industry**

Base Fluid : PAO  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity Index : 120  
Density 40°C : 820 kg/m³  
Temperature Range : -20 -> 120 °C  
Pour point : -30 °C  
Flash Point COC : > 200 °C

## **MOLYDUVAL Soraja GAM 680**

### **Gear Oil for Food Industry**

Synthetic lubricating oil based on PAO for gears, chains and circulating systems in the food industry. Compared to conventional mineral oils, the synthetic oils used are extremely pure and suitable for lubricating applications in the food industry. The product contains a combination of effective anti-corrosion, anti-oxidation and anti-wear additives that significantly improve the technical properties. The base oils used and the anti-corrosion and anti-wear additives they contain are approved for use in the food industry in accordance with DAB and FDA/USDA H1.

Base Fluid : Paraffin + PAO  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm²/s  
Viscosity Index : 105  
Density 40°C : 880 kg/m³  
Temperature Range : -12 -> 120 °C  
Pour point : -20 °C  
Flash Point COC : ca. 180 °C  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## **MOLYDUVAL Soraja GE 150**

### **Synthetic Food Grade Lubrication Oil**

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
Viscosity Class : 150 ISO-VG

## **MOLYDUVAL Soraja GE 320**

### **Synthetic Food Grade Lubrication Oil**

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade esters it offers a top high temperature stability and low residue in case of overheating. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm²/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## **MOLYDUVAL Soraja GE 460**

### **Synthetic Food Grade Lubrication Oil**

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade esters it offers a top high temperature stability and low residue in case of overheating. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Density 40°C : 980 kg/m³  
Temperature Range : -20 -> +230 °C  
Flash Point COC : 300 °C

## **MOLYDUVAL Soraja GEA 220**

### **Synthetic Food Grade Lubrication Oil**

A high viscosity synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade and USDA H1 cleared Polyalphaolefines (PAO), it has a good seal compatibility, good corrosion protection and a top high temperature stability. Available even in many other ISO and SAE viscosity classes. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## **MOLYDUVAL Soraja GEA 46**

### **Synthetic Food Grade Lubrication Oil**

A synthetic industrial gear, bearing and chain fluid with good high temperature stability and wear protection. Based on modern Food - grade esters it offers a top high temperature stability and low residue in case of overheating. It may replace mineral oils in food and pharma industry and therefore represents a step to more safety and cleanness.

Base Fluid : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 8 mm²/s  
Viscosity Index : 150  
Density 40°C : 880 kg/m³  
Temperature Range : -45 -> +140 °C  
Pour point : -51 °C  
Flash Point COC : 250 °C

## **MOLYDUVAL Soraja GGO 220**

### **Food-Grade High Temp Gear Fluid**

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry.

Base Fluid : PG  
Name : CLPPG220  
Viscosity Class : 220 ISO-VG

Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Viscosity 40°C : 220 mm²/s  
Pour point : -30 °C

## MOLYDUVAL Soraja GGO 46

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Pour point : -30 °C

## MOLYDUVAL Soraja GW 1000

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1050 mm²/s  
Viscosity 100°C : 178 mm²/s  
Viscosity Index : 289  
Density 40°C : 1070 kg/m³  
Temperature Range : -20 -> +210 °C  
Pour point : -31 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Soraja GW 150

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 255  
Temperature Range : -20 -> +190 °C  
Pour point : -33 °C

## MOLYDUVAL Soraja GW 220

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 217 mm²/s  
Viscosity 100°C : 36 mm²/s  
Viscosity Index : 220  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +190 °C  
Pour point : -30 °C  
Flash Point PMCC, base oil : 250 °C

## MOLYDUVAL Soraja GW 320

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid

Base Fluid : PG

with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Name : PGLP320  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 220  
Density 40°C : 1070 kg/m³  
Temperature Range : -20 -> +190 °C  
Pour point : -30 °C  
Flash Point PMCC, base oil : 250 °C

## MOLYDUVAL Soraja GW 460

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP460  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Viscosity 100°C : 79 mm²/s  
Viscosity Index : 255  
Temperature Range : -20 -> +190 °C  
Pour point : -25 °C

## MOLYDUVAL Soraja GGX 68

### Food-Grade High Temp Gear Fluid

A synthetic industrial polyglycol gear fluid with excellent high temperature stability and low friction coefficient for Food Industry. Excellent wear protection. Specially developed for worm gears. Meets and exceeds specifications which are usually demanded by gear manufacturers of modern industrial gears.

Base Fluid : PG  
Name : PGLP68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : > 200  
Temperature Range : -20 -> +190 °C  
Pour point : -33 °C

## MOLYDUVAL Soraja GM 100

### Lubrication Oil for Food Industry

A high performance versatile lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : Paraffin  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 11,8 mm²/s  
Viscosity Index : 110  
Density 40°C : 870 kg/m³  
Temperature Range : -10 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Soraja GM 1000

### Lubrication Oil For Food Industry

A high performance high viscosity lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : Paraffin  
Viscosity Class : 1000 ISO-VG  
Viscosity Index : 105  
Density 40°C : 880 kg/m³  
Temperature Range : -10 -> 120 °C  
Pour point : -9 °C

## MOLYDUVAL Soraja GM 150

### Lubrication Oil for Food Industry

A high performance versatile lubricant for

Base Fluid : Paraffin

applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 16 mm<sup>2</sup>/s  
Viscosity Index : 110  
Density 40°C : 870 kg/m<sup>3</sup>  
Temperature Range : -10 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Soraja GM 150 W**

### **Special Oil for Food Industry**

A water miscible lubrication and cleaning fluid for machines and tools in food or pharmaceutical industry. Protects tools and machines against corrosion. Clean, non-toxic lubricant. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : Paraffin  
Viscosity Class : 150 ISO-VG  
Viscosity Index : 110  
Density 40°C : 860 kg/m<sup>3</sup>  
Temperature Range : -10 -> +70 °C  
Temperature Range shortly up to : 90 °C

## **MOLYDUVAL Soraja GM 220**

### **Lubrication Oil for Food Industry**

A high performance versatile lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : Paraffin  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -10 -> 120 °C  
Pour point : -15 °C  
Flash Point COC : 220 °C

## **MOLYDUVAL Soraja GM 320**

### **Lubrication Oil for Food Industry**

A gear oil for circulation systems and gear boxes in food and pharma industry. Conforming to DAB 10 and USDA H1 these pure and clean oils are suitable for use in food industry with incidental food contact. Also the contained corrosion prevention and wear protective additives are FDA and USDA H1 cleared. This oil is also available in many other viscosity classes.

Base Fluid : Paraffin  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm<sup>2</sup>/s  
Viscosity 100°C : 30 mm<sup>2</sup>/s  
Viscosity Index : 134  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -5 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : > 200 °C  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## **MOLYDUVAL Soraja GM 460**

### **Lubrication Oil for Food Industry**

A gear oil for circulation systems and gear boxes in food and pharma industry. Conforming to DAB 10 and USDA H1 these pure and clean oils are suitable for use in food industry with incidental food contact. Also the contained corrosion prevention and wear protective additives are FDA and USDA H1 cleared. This oil is also available in many other viscosity classes.

Base Fluid : Paraffin  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Viscosity 100°C : 33 mm<sup>2</sup>/s  
Viscosity Index : 105  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -5 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : 205 °C  
Wear Protection FZG Test A/8.3/90 : 12 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023





# MOLYDUVAL Patricia Compressor Oils

## MOLYDUVAL Patricia CDA 100 SEF

### Synthetic Compressor Fluid

Synthetic compressor oil based on PAO for compressors in refineries and chemical plants. Has low vapor pressure and does not contain sulfur or esters that could react with acids or acid gases.

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 100°C : 16 mm²/s  
Viscosity Index : >160  
Density 40°C : 840 kg/m³  
Pour point : -48 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Patricia CDA 53 HE

### Synthetic Compressor Fluid

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO, Ester  
Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 53 mm²/s  
Viscosity 100°C : 8 mm²/s  
Density 40°C : 870 kg/m³  
Pour point : -54 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Patricia CDE 50 B

### Synthetic Compressor Fluid

Made from synthesized di-esters to which inhibitors have been added to extend life and to improve their ability to protect against corrosion. Contains antiwear agents. Specially formulated for use in a wide variety of air compressors.

Base Fluid : Ester  
Name : ELP46/68  
Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 52 mm²/s  
Viscosity 100°C : 7,5 mm²/s  
Density 40°C : 950 kg/m³  
Pour point : -40 °C  
Flash Point COC : > 250 °C

## MOLYDUVAL Patricia CDET 220

### Synthetic Compressor Fluid

Useful under normal operating conditions in reciprocating crankcases. Energy reduction: Has extensive data showing energy reductions on compressor drive units averaging 6.7% on recips and 8.3% on rotary screws. Software compatibility: The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

Base Fluid : Ester  
Viscosity Class : 150/220 ISO-VG  
Viscosity 40°C : 195 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 95  
Density 40°C : 950 kg/m³  
Pour point : -30 °C  
Flash Point COC : 275 °C

## MOLYDUVAL Patricia CDG 68

### Synthetic Compressor Fluid

A synthetic compressor oil based on water-immiscible polyalkylene glycols for the lubrication of compressors and vacuum pumps.

Base Fluid : PG  
Name : PGLP68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 13 mm²/s  
Viscosity Index : 140  
Density 40°C : 1010 kg/m³  
Temperature Range : -30 -> +210 °C  
Pour point : -45 °C  
Flash Point COC : 230 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Biodegradability : 87 %

## MOLYDUVAL Patricia CDGE 220

### Synthetic Compressor Fluid

Synthetic compressor oil for screw compressors based on a special polyglycol ester mixture which, due to its

Base Fluid : PG / Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s

composition, keeps crude oil contaminants in the compressor in solution. In vapor recovery compressors, for example, this can have the advantage of reducing the risk of clogging of oil filters and coalescing elements.

Viscosity 100°C : 30 mm²/s  
Viscosity Index : 170  
Density 40°C : 980 kg/m³  
Pour point : -36 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Patricia CDGE 50

### Synthetic Compressor Fluid

This is a polyglycol (PAG) / diester blend. In use for over fifteen years this coolant works very well with an 8000 hour life in good operating conditions. Applications of high humidity, heat, or other adverse conditions may result in shorter life.

Base Fluid : PG / Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 7,5 mm²/s  
Density 40°C : 980 kg/m³  
Pour point : -48 °C  
Flash Point COC : 254 °C

## MOLYDUVAL Patricia CDGEP 22

### Synthetic Compressor Fluid

This is a polyglycol (PAG) / diester blend. In use for over fifteen years this coolant works very well with an 8000 hour life in good operating conditions. Applications of high humidity, heat, or other adverse conditions may result in shorter life.

Base Fluid : PG / Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Density 40°C : 980 kg/m³  
Pour point : -48 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Patricia CDGO 220

### Synthetic Compressor Fluid

Base Fluid : PG / Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,6 mm²/s  
Viscosity Index : 202  
Density 40°C : 990 kg/m³  
Pour point : -51 °C  
Flash Point COC : 251 °C

## MOLYDUVAL Patricia CDMC 46 L

### Semi Synthetic Compressor Fluid

Compressor oil based on hydrocrack mineral oil with a special additive for oil-cooled screw compressors. Hydrocrack compressor oils are suitable for long oil change intervals and high compression end temperatures. In extreme cases, however, the use of synthetic oils based on PAO (Patricia CDA series) or ester based (Patricia CDE series) is recommended.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 127  
Density 40°C : 850 kg/m³  
Pour point : -30 °C  
Flash Point COC : 244 °C

## MOLYDUVAL Patricia CDA 100 L

### Synthetic Compressor Fluid

Synthetic PAO oil for use in a wide variety of reciprocating compressors and vacuum pumps.

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 100°C : 16 mm²/s  
Viscosity Index : >160  
Density 40°C : 840 kg/m³  
Pour point : -48 °C

Flash Point COC : 260 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Demulsifying Ability : 40/40/0  
Neutralisation Value : 0,72 mg KOH/g  
Air release 50°C, to 0,2% air : 5 min  
Sulfated ash : 0,04 %

## MOLYDUVAL Patricia CDA 150 L

### Synthetic Compressor Fluid

Synthetic PAO oil for use in a wide variety of reciprocating compressors and vacuum pumps. Recommended change-out intervals are 2,000 to 4,000 hours.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 155 mm²/s  
Viscosity 100°C : 23 mm²/s  
Viscosity Index : >160  
Density 40°C : 840 kg/m³  
Pour point : -45 °C  
Flash Point COC : 262 °C  
Foam Properties : 5/10/5 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Sulfated ash : 0,04 %

## MOLYDUVAL Patricia CDA 22 L

### Synthetic Compressor Fluid

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks (Poly-Alfa-Olefines) for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Viscosity Class : 15/22 ISO-VG  
Viscosity 40°C : 18,5 mm²/s  
Viscosity 100°C : 3,8 mm²/s  
Density 40°C : 818 kg/m³  
Pour point : -57 °C  
Flash Point COC : >205 °C

## MOLYDUVAL Patricia CDA 220 L

### Synthetic Compressor Fluid

Synthetic PAO oil for use in a wide variety of reciprocating compressors and vacuum pumps.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity 100°C : 26 mm²/s  
Viscosity Index : 154  
Density 40°C : 845 kg/m³  
Pour point : -39 °C  
Flash Point COC : 270 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Patricia CDA 32 L

### Synthetic Compressor Fluid

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 6 mm²/s  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 224 °C

## **MOLYDUVAL Patricia CDA 46 L**

### **Synthetic Compressor Fluid**

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 100°C : 7,5 mm²/s  
Density 40°C : 840 kg/m³  
Evaporation Loss 22h 149°C : 1 %  
Pour point : -54 °C  
Flash Point COC : 246 °C

## **MOLYDUVAL Patricia CDA 46 L**

### **Synthetic Compressor Fluid**

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 100°C : 7,5 mm²/s  
Density 40°C : 840 kg/m³  
Evaporation Loss 22h 149°C : 1 %  
Pour point : -54 °C  
Flash Point COC : 246 °C

## **MOLYDUVAL Patricia CDA 460 L**

### **Synthetic Compressor Fluid**

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Name : SHCLP460  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Density 40°C : 840 kg/m³  
Flash Point COC : 230 °C

## **MOLYDUVAL Patricia CDA 53 L**

### **Synthetic Compressor Fluid**

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO, Ester  
Viscosity Class : 46/68 ISO-VG  
Viscosity 40°C : 53 mm²/s  
Viscosity 100°C : 8 mm²/s  
Density 40°C : 870 kg/m³  
Pour point : -54 °C  
Flash Point COC : 250 °C

## **MOLYDUVAL Patricia CDA 68 L**

### **Synthetic Compressor Fluid**

This Synthetic Hydrocarbon oil is formulated from 100% synthetic base stocks for superior performance. Scheduled changes may be extended.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 100°C : 10,3 mm²/s  
Viscosity Index : 138  
Density 40°C : 840 kg/m³  
Pour point : -54 °C  
Flash Point COC : 254 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade  
Demulsifying Ability : 40/40/0  
Foam Properties : 5/10/5 0/0/0  
Neutralisation Value : 0,72 mg KOH/g  
Air release 50°C, to 0,2% air : 3 min  
Sulfated ash : 0,04 %

## **MOLYDUVAL Patricia CDE 100**

### **Synthetic Compressor Fluid**

Useful under normal operating conditions in rotary vanes, and in reciprocating crankcases. Please contact us for scheduled change intervals on high pressure units. The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

Base Fluid : Ester  
Name : ELP100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 10 mm²/s  
Density 40°C : 940 kg/m³  
Pour point : -35 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Patricia CDE 150**

### **Synthetic Compressor Fluid**

Useful under normal operating conditions in reciprocating crankcases. Energy reduction: Has extensive data showing energy reductions on compressor drive units averaging 6.7% on recips and 8.3% on rotary screws. Software compatibility: The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

Base Fluid : Ester  
Name : ELP150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14 mm²/s  
Density 40°C : 960 kg/m³  
Pour point : -35 °C

## **MOLYDUVAL Patricia CDE 22**

### **Synthetic Compressor Fluid**

Made from synthesized di-esters to which inhibitors have been added to extend life and to improve their ability to protect against corrosion. Contains antiwear agents. Specially formulated for use in a wide variety of air compressors.

Base Fluid : Ester  
Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,5 mm²/s  
Density 40°C : 990 kg/m³  
Pour point : -50 °C

## **MOLYDUVAL Patricia CDE 220**

### **Synthetic Compressor Fluid**

Useful under normal operating conditions in reciprocating crankcases. Energy reduction: Has extensive data showing energy reductions on compressor drive units averaging 6.7% on recips and 8.3% on rotary screws. Software compatibility: The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

Base Fluid : Ester  
Name : ELP220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 960 kg/m³  
Pour point : -35 °C

## **MOLYDUVAL Patricia CDE 32**

### **Synthetic Compressor Fluid**

Made from synthesized di-esters to which inhibitors have been added to extend life and to improve their ability to protect against corrosion. Contains antiwear agents.

Base Fluid : Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Pour point : -48 °C

Specially formulated for use in a wide variety of air compressors. **Flash Point COC : 220 °C**

## MOLYDUVAL Patricia CDE 320

### Synthetic Compressor Fluid

Useful under normal operating conditions in reciprocating crankcases. Energy reduction: Has extensive data showing energy reductions on compressor drive units averaging 6.7% on recipis and 8.3% on rotary screws. Software compatibility: The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

**Base Fluid : Ester**  
**Name : ELP320**  
**Viscosity Class : 320 ISO-VG**  
**Viscosity 40°C : 320 mm²/s**  
**Density 40°C : 960 kg/m³**  
**Pour point : -27 °C**

## MOLYDUVAL Patricia CDE 46

### Synthetic Compressor Fluid

Made from synthesized di-esters to which inhibitors have been added to extend life and to improve their ability to protect against corrosion. Contains antiwear agents. Specially formulated for use in a wide variety of air compressors.

**Base Fluid : Ester**  
**Name : ELP46**  
**Viscosity Class : 46 ISO-VG**  
**Viscosity 40°C : 43 mm²/s**  
**Viscosity 100°C : 6 mm²/s**  
**Density 40°C : 960 kg/m³**  
**Evaporation Loss 22h 149°C : 1 %**  
**Pour point : -40 °C**  
**Flash Point COC : 252 °C**

## MOLYDUVAL Patricia CDE 68

### Synthetic Compressor Fluid

Made from synthesized di-esters to which inhibitors have been added to extend life and to improve their ability to protect against corrosion. Contains antiwear agents. Specially formulated for use in a wide variety of air compressors.

**Base Fluid : Ester**  
**Name : ELP68**  
**Viscosity Class : 68 ISO-VG**  
**Viscosity 40°C : 68 mm²/s**  
**Viscosity 100°C : 7 mm²/s**  
**Density 40°C : 960 kg/m³**  
**Evaporation Loss 22h 149°C : 1 %**  
**Pour point : -38 °C**  
**Flash Point COC : 252 °C**

## MOLYDUVAL Patricia CDEP 27 SJ

### Synthetic Compressor Fluid

Special synthetic air Compressor Oil based on pentaerythritol esters, added with antioxidants, antifoam and anti wear additives.

**Viscosity 40°C : 27 mm²/s**  
**Viscosity 100°C : 5,4 mm²/s**  
**Density 40°C : 973 kg/m³**  
**Pour point : -50 °C**

## MOLYDUVAL Patricia CDEP 32

### Synthetic Compressor Fluid

Fully synthetic compressor oils formulated from premium polyol ester (POE) base fluids to achieve long life for compressor applications. These products are greater than 90% biodegradable as measured by the CEC L33 biodegradability test. New

**Base Fluid : POE Ester**  
**Viscosity 40°C : 32 mm²/s**  
**Density 40°C : 980 kg/m³**

additive technology assures long lasting protection, it produces the highest oxidative additive stability, enhanced hydrolytic stability and excellent wear and corrosion protection.

## MOLYDUVAL Patricia CDEP 46

### Synthetic Compressor Fluid

Fully synthetic compressor oils formulated from premium polyol ester (POE) base fluids to achieve long life for compressor applications. These products are greater than 90% biodegradable as measured by the CEC L33 biodegradability test. New additive technology assures long lasting protection, it produces the highest oxidative additive stability, enhanced hydrolytic stability and excellent wear and corrosion protection.

**Base Fluid : POE Ester**  
**Viscosity 40°C : 46 mm²/s**  
**Density 40°C : 980 kg/m³**

## MOLYDUVAL Patricia CDEP 68

### Synthetic Compressor Fluid

Fully synthetic compressor oils formulated from premium polyol ester (POE) base fluids to achieve long life for compressor applications. These products are greater than 90% biodegradable as measured by the CEC L33 biodegradability test. New additive technology assures long lasting protection, it produces the highest oxidative additive stability, enhanced hydrolytic stability and excellent wear and corrosion protection.

**Base Fluid : POE Ester**  
**Viscosity 40°C : 68 mm²/s**  
**Density 40°C : 980 kg/m³**

## MOLYDUVAL Patricia CDEPA 46

### Synthetic Compressor Fluid

Fully synthetic compressor oils formulated from premium polyol ester (POE) base fluids combined with PAO (SHC) to achieve long life for compressor applications. New additive technology assures long lasting protection, it produces the highest oxidative additive stability, enhanced hydrolytic stability and excellent wear and corrosion protection.

**Base Fluid : Ester + PAO**  
**Viscosity 40°C : 46 mm²/s**  
**Viscosity Index : 126**  
**Density 40°C : 890 kg/m³**  
**Pour point : -50 °C**  
**Flash Point COC : 260 °C**

## MOLYDUVAL Patricia CDET 150

### Synthetic Compressor Fluid

Useful under normal operating conditions in reciprocating crankcases. Energy reduction: Has extensive data showing energy reductions on compressor drive units averaging 6.7% on recipis and 8.3% on rotary screws. Software compatibility: The diester oils are compatible with most currently used compressor components including seals, paints and plastics. However, some materials are not recommended for use with diester oils. Please contact us for further information.

**Base Fluid : Ester**  
**Name : ELP150**  
**Viscosity Class : 150 ISO-VG**  
**Viscosity 40°C : 150 mm²/s**  
**Viscosity 100°C : 13 mm²/s**  
**Viscosity Index : 80**  
**Density 40°C : 970 kg/m³**  
**Pour point : -30 °C**  
**Flash Point COC : 260 °C**



## MOLYDUVAL Patricia CDG 100

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent high temperature and excellent wear protection.

Base Fluid : PG  
Name : PGL100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 20 mm²/s  
Viscosity Index : 225  
Density 40°C : 1040 kg/m³  
Pour point : -56 °C

## MOLYDUVAL Patricia CDG 15

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent high temperature and excellent wear protection.

Base Fluid : PG  
Viscosity Class : 15/22 ISO-VG  
Viscosity 40°C : ca. 20 mm²/s  
Viscosity Index : 170  
Density 40°C : 1000 kg/m³  
Pour point : -45 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Patricia CDG 150

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent high temperature and excellent wear protection.

Base Fluid : PG  
Name : PGLP150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 235  
Density 40°C : 1050 kg/m³  
Pour point : -45 °C  
Flash Point COC : 250 °C

## MOLYDUVAL Patricia CDG 220

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent high temperature and excellent wear protection.

Base Fluid : PG  
Name : PGLP220  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 245  
Density 40°C : 1060 kg/m³  
Pour point : -42 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Patricia CDG 46

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent high temperature and excellent wear protection.

Base Fluid : PG  
Name : PGL46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 225  
Density 40°C : 1040 kg/m³  
Pour point : -56 °C

## MOLYDUVAL Patricia CDGE 32

### Synthetic Compressor Fluid

This is a polyglycol (PAG) / diester blend. In use for over fifteen years this coolant works very well with an 8000 hour life in good operating conditions. Applications of high humidity, heat, or other adverse conditions may result in shorter life.

Base Fluid : PG / Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 7,2 mm²/s  
Density 40°C : 980 kg/m³  
Pour point : -48 °C  
Flash Point COC : 254 °C

## MOLYDUVAL Patricia CDGEP 40

### Synthetic Compressor Fluid

This is a polyglycol (PAG) / diester blend. In use for over fifteen years this coolant works very well with an 8000 hour life in good operating conditions. Applications of high humidity, heat, or other adverse conditions may result in shorter life.

Base Fluid : PG / Ester  
Viscosity Class : 32/46 ISO-VG  
Viscosity 40°C : 40 mm²/s  
Viscosity 100°C : 7,3 mm²/s  
Density 40°C : 980 kg/m³  
Pour point : -48 °C  
Flash Point COC : 254 °C

## MOLYDUVAL Patricia CDGEP 46

### Synthetic Compressor Fluid

This is a polyglycol (PAG) / pentaester blend. In use for over fifteen years this coolant works very well with an 8000 hour life in good operating conditions. Applications of high humidity, heat, or other adverse conditions may result in shorter life.

Base Fluid : PG / Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,6 mm²/s  
Viscosity Index : 202  
Density 40°C : 990 kg/m³  
Pour point : -51 °C  
Flash Point COC : 251 °C

## MOLYDUVAL Patricia CDM 100

### Compressor Fluid based on Mineral Oil

Compressor oil designed for reciprocating compressors.

Name : VDL100  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 11 mm²/s  
Density 40°C : 880 kg/m³  
Pour point : -15 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Patricia CDM 150

### Compressor Fluid based on Mineral Oil

Compressor oil designed for reciprocating compressors.

Name : VDL150  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity 100°C : 14,6 mm²/s  
Density 40°C : 890 kg/m³  
Pour point : -15 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Patricia CDM 22

### Compressor Fluid based on Mineral Oil

Compressor Fluid for rotary vane compressors.

Name : VCL22 VDL22  
Viscosity Class : 22 ISO-VG



Viscosity 40°C : 22 mm²/s  
Viscosity 100°C : 4,1 mm²/s  
Density 40°C : 860 kg/m³  
Pour point : -12 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Patricia CDM 220**

### **Compressor Fluid based on Mineral Oil**

Compressor oil designed for reciprocating compressors.

Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 880 kg/m³  
Pour point : -15 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Patricia CDM 32**

### **Compressor Fluid based on Mineral Oil**

Compressor Fluid for rotary vane compressors.

Name : VDL32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,3 mm²/s  
Viscosity 50°C : 21 mm²/s  
Density 40°C : 0,868 kg/m³  
Pour point : -21 °C  
Flash Point COC : 205 °C

## **MOLYDUVAL Patricia CDM 32 X**

### **Semi Synthetic Compressor Fluid**

Compressor Oil for screws compressors.

Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,3 mm²/s  
Viscosity Index : 98  
Density 40°C : 870 kg/m³  
Pour point : -30 °C  
Flash Point COC : 208 °C

## **MOLYDUVAL Patricia CDM 320**

### **Compressor Fluid based on Mineral Oil**

Compressor oil designed for reciprocating compressors.

Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Density 40°C : 880 kg/m³  
Pour point : -15 °C

## **MOLYDUVAL Patricia CDM 46**

### **Compressor Fluid based on Mineral Oil**

Compressor Fluid for screw compressors.

Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 6,67 mm²/s  
Viscosity Index : 96  
Density 40°C : 876 kg/m³  
Flash Point COC : 228 °C  
Pour point : -15 °C  
Demulsifying Ability : 40/40/0  
Foam Properties : 10/20/20 0/0/0  
Neutralisation Value : 0,17 mg KOH/g  
Sulfated ash : 0,02 %

## **MOLYDUVAL Patricia CDM 460**

### **Compressor Fluid based on Mineral Oil**

Compressor oil designed for reciprocating compressors.

Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 460 mm²/s  
Density 40°C : 880 kg/m³  
Pour point : -10 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Patricia CDM 68**

### **Compressor Fluid based on Mineral Oil**

Compressor Fluid for screw compressors.

Name : VDL68  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 8,6 mm²/s  
Viscosity 50°C : 43 mm²/s  
Density 40°C : 0,877 kg/m³  
Flash Point COC : 230 °C  
Pour point : -12 °C

## **MOLYDUVAL Patricia CDM 680**

### **Compressor Fluid based on Mineral Oil**

Compressor oil designed for reciprocating compressors.

Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm²/s  
Density 40°C : 880 kg/m³  
Pour point : -10 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Patricia CDMA 100**

### **Semi Synthetic Compressor Fluid**

Compressor Oil for screws compressors.

Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Density 40°C : 900 kg/m³  
Pour point : -30 °C

## **MOLYDUVAL Patricia CDMA 46**

### **Semi Synthetic Compressor Fluid**

Compressor oil based on hydrocrack mineral oil with a special additive for oil-cooled screw compressors. Hydrocrack compressor oils are suitable for long oil change intervals and high compression end temperatures. In extreme cases, however, the use of synthetic oils based on PAO (Patricia CDA series) or ester based (Patricia CDE series) is recommended.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity Index : 127  
Density 40°C : 850 kg/m³  
Pour point : -30 °C  
Flash Point COC : 244 °C

## **MOLYDUVAL Patricia CDS 40**

### **Silicone Based Compressor Fluid**

Silicone-based compressor oil designed for use in rotary screw compressors. Does not break down under normal operating temperatures and pressures thereby eliminating carbon deposits, sludge and varnish formations. The system stays clean of lubricant by-products resulting in lower

Base Fluid : Silicon  
Viscosity Class : - ISO-VG  
Viscosity 40°C : 38 mm²/s  
Viscosity 100°C : 16 mm²/s  
Viscosity Index : 420  
Density 40°C : 960 kg/m³  
Pour point : -54 °C

maintenance costs. The high viscosity index insures a minimum change in viscosity over the compressor's temperature range.

Designed to replace OEM silicone fluids in rotary screw compressors. This product is specially formulated with silicone base fluids and appropriate additives to perform over an extremely long period of time. It is fortified against rust, corrosion, oxidation and wear. May be added directly to 24KT.

Flash Point COC : 300 °C

synthetic impregnating oil for long life. For use in power tools, vacuum cleaners, fans, blowers, garbage disposals, garage door openers, pumps, food processors, can openers and the many dc motors found in your car that power the seat, the windows, the wipers, the heater/ac blower and more.

## MOLYDUVAL Patricia CL

### Concentrated Cleaner and System Flush

A premium quality solvent-type fluid designed to dissolve varnish and solubilize sludge as an additive at 5% to 10% concentration in oil for cleaning: Hydraulic Systems, Gearboxes, Air Compressors, Vacuum Pumps, Chains, Bearings, Reservoirs, Airline Valves, Heat Transfer Systems, and Bowser Sumps in Paper Mills during operation. (Not for use in Ammonia Compressors.) It can also be used to help flush a system when changing-over from mineral to synthetic oils in order to reduce contamination due to oil carry-over. Regular use of it will help you get the most out of your synthetic oil and your equipment by removing varnish and reducing operating temperature.

Viscosity Class : 100/150 ISO-VG  
Viscosity 40°C : 118 mm²/s  
Viscosity 100°C : 10,2 mm²/s  
Viscosity Index : 52  
Density 40°C : 920 kg/m³  
Flash Point COC : 157 °C  
Concentration recommended : 5-10 %

## MOLYDUVAL Patricia CL 32

### ROTARY-SCREW COMPRESSOR CLEANER AND SYSTEM FLUSH

A premium quality synthetic fluid designed to dissolve varnish and solubilize sludge from rotary-screw air compressors during operation. It can also be used as a system flush when changing-over from mineral to synthetic oils in order to reduce contamination due to oil carry-over. Regular use of Ultraclean will help you get the most out of your synthetic oil and your compressor by removing varnish and reducing operating temperature.

Basis : Ester  
Viscosity Class : 22-32 ISO-VG  
Viscosity 40°C : 25 mm²/s  
Viscosity 100°C : 5 mm²/s  
Density 40°C : 990 kg/m³  
Pour point : -50 °C

## MOLYDUVAL Stribeck A 68

### Synthetic Impregnating Fluid

Compatible with a wide variety of plastics, this oil is designed for use in powder metal sleeve bearings, felts, wicks, and gears that require a high viscous fluid. It is also available with the addition of a colloidal graphite, which has been milled to an average particle size of 0.5 microns. This version helps eliminate dry start-ups, chirping or squeaking at low temperatures, and reduces wear in high wear applications. Many users of powder metal bearings rely on our

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity 100°C : 10 mm²/s  
Viscosity Index : 138  
Density 40°C : 840 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Flash Point COC : 250 °C  
Pour point : -54 °C  
Wear Protection FZG Test A/8.3/90 : > 12 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 29.03.2023



# MOLYDUVAL Soraja

## Compressor Fluids for Food Industry

### MOLYDUVAL Soraja CDA 220

#### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity Index : 160  
Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -42 °C  
Flash Point COC : 260 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

### MOLYDUVAL Soraja CDA 75

#### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : PAO  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 75 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 820 kg/m<sup>3</sup>  
Flash Point COC : 232 °C  
Pour point : -42 °C

### MOLYDUVAL Soraja CDA 85

#### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : PAO  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 85 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 850 kg/m<sup>3</sup>  
Flash Point COC : > 260 °C  
Pour point : - 42 °C

### MOLYDUVAL Soraja CE 32

#### Synthetic Compressor Fluid

Synthetic compressor oil based on ester for use in highly loaded compressors, especially extremely loaded screw and rotary compressors in the food industry. Applicable at high compression temperatures. For extension of the oil change intervals.

Base Fluid : Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : 140  
Pour point : -48 °C  
Flash Point COC : 255 °C

### MOLYDUVAL Soraja CDA 100

#### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : PAO  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity 100°C : 10,5 mm<sup>2</sup>/s  
Viscosity Index : 145  
Density 40°C : 820 kg/m<sup>3</sup>  
Flash Point COC : 232 °C  
Pour point : -42 °C

### MOLYDUVAL Soraja CDA 150

#### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : PAO  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity 100°C : 20 mm<sup>2</sup>/s  
Viscosity Index : 155  
Density 40°C : 840 kg/m<sup>3</sup>  
Pour point : -42 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Soraja CDA 32

### Synthetic Food-Grade Compressor Oil

Designed for many hours of use in rotary screw compressors where a food grade lubricant is needed. Conforms to USDA H-1, authorized for use in meat and poultry processing plants where incidental contact with food may occur. Meets requirements under FDA Regulation 21 CFR 178.3570. Offers improved thermal and oxidative stability over mineral oil, compatibility with most seals, plastics, rubbers and a wide operating temperature range. Extended drain intervals reduces oil disposal, thus increasing cost effectiveness.

Base Fluid : PAO  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 6 mm<sup>2</sup>/s  
Viscosity Index : 133  
Density 40°C : 825 kg/m<sup>3</sup>  
Temperature Range : -50 -> +135 °C  
Pour point : -63 °C  
Foam Properties : 0/0/0 0/0/0

high temperature and excellent wear protection.

Viscosity Class : 220/320 ISO-VG  
Viscosity 40°C : 270 mm<sup>2</sup>/s  
Viscosity Index : 225  
Density 40°C : 1100 kg/m<sup>3</sup>  
Pour point : -7 °C  
Flash Point COC : 259 °C

## MOLYDUVAL Soraja CDA 46

### Synthetic Food-Grade Compressor Oil

Designed for many hours of use in rotary screw compressors where a food grade lubricant is needed. Conforms to USDA H-1, authorized for use in meat and poultry processing plants where incidental contact with food may occur. Meets requirements under FDA Regulation 21 CFR 178.3570. Offers improved thermal and oxidative stability over mineral oil, compatibility with most seals, plastics, rubbers and a wide operating temperature range. Extended drain intervals reduces oil disposal, thus increasing cost effectiveness.

Base Fluid : PAO  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 138  
Density 40°C : 830 kg/m<sup>3</sup>  
Temperature Range : -50 -> +135 °C  
Pour point : -54 °C  
Flash Point COC : 250 °C  
Foam Properties : 0/0/0  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja CDA 68

### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of rotary vane, and reciprocating compressors and vacuum pumps. Recommended change-out intervals are 2,000 to 4,000 hours.

Base Fluid : PAO  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity 100°C : 11,3 mm<sup>2</sup>/s  
Viscosity Index : 163  
Density 40°C : 850 kg/m<sup>3</sup>  
Flash Point COC : 260 °C  
Pour point : -40 °C

## MOLYDUVAL Soraja CE 100

### Synthetic Food-Grade Compressor Oil

Food grade synthetic compressor oil for use in a wide variety of reciprocating compressors.

Base Fluid : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Density 40°C : 950 kg/m<sup>3</sup>

## MOLYDUVAL Soraja CG 270

### Synthetic Compressor Fluid

Synthetic industrial compressor fluid based on sythetic polyalkylene glycols. Excellent

Base Fluid : PG  
Name : PGL270



For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

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# MOLYDUVAL Valenzia + Pegasus

## Mineral Oil Based High Temperature Greases

### MOLYDUVAL Pegasus AKM 2 LC

#### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Oil Separation : 1,9 %  
Flow pressure -25°C : < 1000 hPa (mbar)  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,86 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1B Grade

chemical stability and offers excellent protection against rust and corrosion.

Temperature Range shortly up to : 200 °C  
Dropping Point : > 250 °C

### MOLYDUVAL Pegasus BM 3 P

#### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : bentone  
Name : ISO-L-XAEB3  
Name : KP3N-20  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 40°C : 400 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 23 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1 Grade

### MOLYDUVAL Pegasus AKM 2 PHV

#### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of

Base Fluid : Min  
Thickener : ALK  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 440 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C

### MOLYDUVAL Pegasus UM 1 M

#### High Temperature Grease

A polyurea-based high-temperature product for lubricating roller and plain bearings at high temperatures. It protects against friction and wear, maintains its soft structure even at high temperatures, even if it is exceeded, it forms relatively few deposits. Anti-oxidation and anti-corrosion additives ensure a long service life and reliable protection against corrosion. Solid lubricants increase the pressure load capacity, reduce friction and offer emergency running properties.

Base Fluid : Min  
Name : ISO-L-XAEHB1  
Name : KPF1P-10  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -10 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : > 250 °C  
rotary speed index n-dm : 200.000

## MOLYDUVAL Pegasus UM 30 ZSA

### MOLYDUVAL Valenzia LKM 1 B

#### High Temperature Grease

### MOLYDUVAL Valenzia LKM 1 R

#### High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

### MOLYDUVAL Valenzia LKM 15 MHV

#### High Temperature Grease

A highly friction-reducing high-pressure grease with MoS<sub>2</sub>. It contains a very temperature-stable, modern complex thickener and is therefore ideal for high-pressure and high-temperature lubrication points. The grease contains special active ingredients that reduce excessive wear even in the run-in phase and cause a flattening of the flank surfaces.

Base Fluid : Min  
Name : ISO-L-XCEIB1,5  
Name : KPF1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 990 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : >7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

### MOLYDUVAL Valenzia LKM 2 HV

#### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

### MOLYDUVAL Valenzia LKM 2 HVZ

#### White High Temperature Grease

A white high-temperature grease for long-term lubrication of rolling and plain

Base Fluid : Min  
Thickener : LiK

bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable

### MOLYDUVAL Valenzia LKM 2 MHV

#### High Temperature Grease

A highly friction-reducing high-pressure grease with MoS<sub>2</sub>. It contains a very temperature-stable, modern complex thickener and is therefore ideal for high-pressure and high-temperature lubrication points. The grease contains special active ingredients that reduce excessive wear even in the run-in phase and cause a flattening of the flank surfaces.

Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 0,950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade

Base Fluid : Min  
Name : ISO-L-XCGIB2  
Name : KPF2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Dropping Point : > 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : >7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

### MOLYDUVAL Valenzia LKM 2 MLZHV

#### White High Temperature Grease

A white high-temperature grease for long-term lubrication of rolling and plain bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable corrosion protection.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 0,950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade

### MOLYDUVAL Valenzia LKM 2 SP 3

#### 3-Months-Lubricator with High Temperature Grease

### MOLYDUVAL Valenzia LKM 2 T

#### High Temperature Grease with PTFE

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30

excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

## MOLYDUVAL Valenzia LKM 25 T

### High Temperature Grease with PTFE

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 200 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2/3P-30  
Consistency Class NLGI : 2-3  
Viscosity Base Fluid, 40°C : 200 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 0

### High Temperature Flow Grease

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

Base Fluid : Min  
Name : ISO-L-XCEEB0  
Name : KP0P-30  
Consistency Class NLGI : 0  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus AKM 1 C

### High Temperature Grease

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes graphite for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

Base Fluid : Min  
Name : ISO-L-XBFEB1  
Name : KPF1R-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 50 kPa  
nd value n-d : 400000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 1 HV

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEEB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C  
nd value n-d : 250000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass

## MOLYDUVAL Pegasus AKM 2 C

### High Temperature Grease

High-temperature grease for cost-effective long-term lubrication at high temperatures. Very good water resistance, good corrosion resistance, good oxidation resistance and a thermostable thickener allow high temperature peaks. At high temperatures, it will hardly soften or harden. Compared to other commonly used bentonite fats, it does not form any hardenings, relubrication is even easier at high temperatures.

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KPF2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Oil Separation : 1,9 %  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1B Grade

## MOLYDUVAL Pegasus AKM 2 CM

### High Temp. Grease with Solid Lubricants

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes graphite for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

Base Fluid : Min  
Name : ISO-L-XBFEB2  
Name : KPF2R-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 50 kPa  
nd value n-d : 400000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 HV

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 840 mm²/s  
Density 15°C : 910 kg/m³



temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 HVN

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 MHV

### High Temperature Grease with MoS<sub>2</sub>

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 840 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 P

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Oil Separation : 1,9 %  
Flow pressure -25°C : < 1000 hPa (mbar)  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,86 mm

Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1B Grade

## MOLYDUVAL Pegasus AKM 2 TZ

### High Temperature Grease with PTFE

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XBFEB2  
Name : KPF2R-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance 100h 99°C : < 50 kPa  
nd value n-d : 250000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 1 M

### Multi Purpose Lubrication Paste with MoS<sub>2</sub>

A soft, friction-reducing high temperature fat with MoS<sub>2</sub>. It contains a very temperature-stable thickener and is therefore particularly for high pressure and high temperature-loaded lubrication fittings suitably. Due to its tough consistency it should not be used however for high-speed camps. It is very steady opposite solvents of all kinds, acids and caustic solutions.

Base Fluid : Min  
Name : ISO-L-XCFEA1  
Name : KF1T-30  
Consistency Class NLGI : 1  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BM 1 P

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative insensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB1  
Name : KP1P-20  
Consistency Class NLGI : 1  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus BM 2 HV

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative insensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 950 kg/m<sup>3</sup>

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus BM 2 LV

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XCDEB2  
Name : KP2N-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus BM 2 M

### High Temperature Grease With MoS2

A high temperature grease with MoS2 and heavy duty extreme pressure addition, especially used for heavy dutied, hot lubrication problems. It is resistant against hot and cold water, against hot steam, acids and solvents. Due to the fact that it is extremely resistant to ageing it is especially fitted for those lubricating points which are accessible with much difficulties and which can therefore be oiled very seldom. No getting dirty of the goods by dropping greases.

Base Fluid : Min  
Name : ISO-L-XCFEA2  
Name : KF2R-30  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 2 T

### High Temperature Grease with PTFE

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : Bentone  
Name : ISO-L-XBDEB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 2 TZ

### High Temperature Grease

A white lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

Base Fluid : Mineral  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

## MOLYDUVAL Pegasus BM 2 X

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus BM 2 XHV

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : MP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Pegasus BM 25 HV

### High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : KP2,5N-40  
Consistency Class NLGI : 2-3  
Viscosity Base Fluid, 40°C : 180 mm²/s  
Viscosity Base Fluid, 100°C : 14 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus UM 0 ZSA

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Thickener : PU  
Consistency Class NLGI : ca. 0  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Dropping Point : >240 °C

## MOLYDUVAL Pegasus UM 1

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XCFHA1,5  
Name : K1,5R-30  
Consistency Class NLGI : 1-2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : 250 °C

## MOLYDUVAL Pegasus UM 1 HV

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XBFHB1  
Name : KP1R-20  
Consistency Class NLGI : 1  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UM 1 T

### Synthetic High Temperature Grease with PTFE

A high and wide temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains PTFE for reducing friction.

Base Fluid : Min  
Name : ISO-L-XBDIB1  
Name : KPF1N-20  
Consistency Class NLGI : 1  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Dropping Point : 240 °C

## MOLYDUVAL Pegasus UM 15

### High Temperature Grease

A soft, high temperature ball and roller

Base Fluid : Min

bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Thickener : Polyurea

Name : ISO-L-XCEIB1,5

Consistency Class NLGI : 1,5

Viscosity Base Fluid, 40°C : 320 mm<sup>2</sup>/s

Density 15°C : 870 kg/m<sup>3</sup>

Temperature Range : -30 -> +160 °C

Temperature Range shortly up to : 180 °C

## MOLYDUVAL Pegasus UM 15 HV

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min + PAO

Thickener : Polyurea

Name : ISO-L-XCEIB1,5

Consistency Class NLGI : 1,5

Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s

Density 15°C : 870 kg/m<sup>3</sup>

Temperature Range : -30 -> +160 °C

Dropping Point : 220 °C

Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2

### High Temperature Grease

High temperature manufacturing based on polyurea for the lubrication of rolling and plain bearings at high temperatures. It protects very well against friction and wear. It maintains its soft structure even at high temperatures, even when exceeded it forms relatively little deposits. Oxidation and corrosion protection additives ensure long life and reliable corrosion protection.

Base Fluid : Min

Name : ISO-L-XCEIB2

Name : KP2P-20

Consistency Class NLGI : 2

Density 15°C : 870 kg/m<sup>3</sup>

Temperature Range : -20 -> +160 °C

Temperature Range shortly up to : 200 °C

Lubricating Ability Wheel bearing test 105 ° C : 2 Grade

Dropping Point : 250 °C

Oxidation resistance 100h : 60 kpa

Oxidation resistance 500h : 180 kpa

Oil Separation 168h (7d) 40°C : 0,7 %

Wear Protection VKA welding load : 3000 N

## MOLYDUVAL Pegasus UM 2 C

### Synthetic High Temperature Grease with Graphite

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains graphite for reducing friction.

Base Fluid : Min

Name : ISO-L-XCFHB2

Consistency Class NLGI : 2

Density 15°C : 870 kg/m<sup>3</sup>

Temperature Range : -30 -> +180 °C

Lubricating Ability Wheel bearing test 105 ° C : 2 Grade

Dropping Point : 230 °C

Oxidation resistance 100h : 60 kpa

Oxidation resistance 500h : 180 kpa

Oil Separation 168h (7d) 40°C : 0,7 %

Wear Protection VKA welding load : 2000 N

Corrosion Protection Emcor, WWO, distilled water : 0 Grade



## MOLYDUVAL Pegasus UM 2 HV

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XBFB2  
Name : KP2R-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -20 -> +180 °C  
Dropping Point : 270 °C  
Oxidation resistance 100h : < 250 kpa

## MOLYDUVAL Pegasus UM 2 LV

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XCFHA2  
Name : K2R-30  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +180 °C  
Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2 LVT

### High Temperature Grease with PTFE

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XCFHA2  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +180 °C  
Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2 M

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XCFIB2  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UM 2 T

### High Temperature Grease with PTFE

A high and wide temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains PTFE for reducing friction.

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m³  
Temperature Range : -20 -> +150 °C  
Dropping Point : 240 °C  
Wear Protection VKA welding load : 2000 N

## MOLYDUVAL Pegasus UM 25

### High Temperature Grease

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

Base Fluid : Min  
Name : ISO-L-XCFHA2,5  
Consistency Class NLGI : 2-3  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +180 °C  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia

### Long-Life Grease for High Temperatures

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings at high temperatures. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade



Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 H

### High Temperature Heavy Duty Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XBDEB1  
Name : KP1P-20  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : 260 °C

## MOLYDUVAL Valenzia LKM 1 M

### High Temperature Grease

A friction-reducing high pressure grease with MoS<sub>2</sub> for heavy-duty lubrication points. It protects against friction and wear, it still keeps it's smooth structure even in unfavourable working conditions. Oxidation- and corrosion protection additives guarantees long using times and reliable corrosion protection.

Molybdenum Disulphide provides extra protection against friction and wear. The MoS<sub>2</sub> smooth surfaces and improves pressure load.

The lithium complex thickener supposed with high viscosity base fluid offers tackiness, extreme pressure, high temperature and heavy duty performance.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB1  
Name : KPF1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 ML

### High Temperature Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 MXHV

### High Temperature Grease

A high-temperature grease for the long-term lubrication of slow-running, highly loaded rolling and plain bearings based on a lithium complex soap and mineral oil, with a specially incorporated adhesive capacity. Very water resistant and corrosion resistant. Contains a combination of synergistic black solid lubricants, thus offering extreme pressure resistance. Also suitable in unfavorable environmental conditions, such as high moisture, impact-load, dust such as e.g. In cement plants and the steel industry.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XAEIB1  
Name : KPF1P-10  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1100 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -10 -> +160 °C

## MOLYDUVAL Valenzia LKM 1 T

### High Temperature Grease with PTFE

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KPF1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : ca. 220 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection copper : 1-120 Grade

## MOLYDUVAL Valenzia LKM 1 Z

### White High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications.

Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XDEIB1  
Name : KPF1P-40  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 15 G

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB1,5  
Name : KP1,5R-30  
Consistency Class NLGI : 1,5  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 15 LVT

### Long Term Grease with PTFE

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCFIB1,5  
Name : KPF1,5R-30  
Consistency Class NLGI : 1-2  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Valenzia LKM 15 PHV

### High Temperature Heavy Duty Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings. It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

Base Fluid : Min  
Name : ISO-L-XBCIB1,5  
Name : KP1,5N-20  
Name : OGP1,5N-20  
Consistency Class NLGI : ca. 1,5  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 15 PLV

### High Temperature Heavy Duty Grease

A modern developed special grease for open gears, based on a new complex soap, which has extreme high pressure characteristics.

Base Fluid : Min  
Name : ISO-L-XCEIB1,5  
Name : OGP1,5P-30  
Name : KP1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 260 mm<sup>2</sup>/s  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : > 7000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 15 XHV

### Long Term Grease for Heavy Loads

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

Base Fluid : PAO + Mineral  
Thickener : LiK  
Name : ISO-L-XCEIB1,5  
Name : KP1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 520 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 220 °C  
Water Resistance 80°C : < 6 %  
Dropping Point : 285 °C  
Lubricating Ability 02-SKF-R2F : pass  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 0-1 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Valenzia LKM 2

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +180 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 B

### High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 H

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBDEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : 260 °C

## MOLYDUVAL Valenzia LKM 2 LV

### High Temperature Heavy Duty Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDEB2  
Name : KP2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : > 260 °C  
Utility Time 02-A/1500/6000-150 : > 100 h  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-150 Grade

## MOLYDUVAL Valenzia LKM 2 M

### High Temperature Grease

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes MoS<sub>2</sub> for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must

Base Fluid : Min  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 280 °C

guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 ML

### High Temperature Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XBDIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 PHV

### High Temperature Heavy Duty Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

## MOLYDUVAL Valenzia LKM 2 R

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000



protection against rust and corrosion.

Dropping Point : >245 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 SP 12

### 12-Months-Lubricator with High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 TG

### Green High Temperature Grease with PTFE

A green colored premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDFB2  
Name : KPF2N-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 THV

### High Temperature Heavy Duty Grease

A multipurpose, high performance grease with synergetic solid lubricants specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings. It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

## MOLYDUVAL Valenzia LKM 2 TX

### High Temperature Grease with PTFE

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCFIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 520 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C  
Wear Protection VKA welding load : 5500 N

## MOLYDUVAL Valenzia LKM 2 XHV

### Long Term Grease for Heavy Loads

Highly friction-reducing high-pressure grease for high-pressure, slow to medium-speed lubrication points that can only rarely be relubricated. Excellent protection against wear and tear, contains oxidation and corrosion protection additives that guarantee a long service life and reliable corrosion protection. Due to its high base oil viscosity, this lubricating grease has a better lubricating effect than comparable greases with a thin base oil in slow relative movements. Proven in paper machines in wet and dry areas.

Base Fluid : PAO + Mineral  
Thickener : LiK  
Name : ISO-L-XCFHB2  
Name : KHCP2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 520 mm<sup>2</sup>/s  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Water Resistance 80°C : < 5 %  
Dropping Point : 285 °C  
Lubricating Ability 02-SKF-R2F : pass  
Water Resistance Static : 1-90 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-2 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Valenzia LKM 2 Z

### White High Temperature Grease

A white high-temperature grease for long-term lubrication of rolling and plain bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : + 200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N



protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable corrosion protection.

## MOLYDUVAL Valenzia LKM 2 ZSP 3

### 3-Months-Lubricator with High Temperature Grease

## MOLYDUVAL Valenzia LKM 25

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDFB2,5  
Name : KP2,5N-30  
Consistency Class NLGI : 2-3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDFB3  
Name : KP3N-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3 B

### High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB3  
Name : KP3R-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3 LV

### High Temperature Heavy Duty Grease

A high-temperature, high-temperature grease for long-term lubrication of high-speed rolling and plain bearings at high temperatures. It is a complex-based special grease and, due to better mechanical and thermal stability, has a far wider range of applications than conventional lithium saponified multipurpose greases.

Base Fluid : Min  
Name : ISO-L-XBDEB3  
Name : KP3P-20  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : > 260 °C  
Utility Time 02-A/1500/6000-150 : > 100 h  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-150 Grade

## MOLYDUVAL Valenzia LKM 3 M

### Long Term Grease with MoS2 for Heavy Loads

MOLYDUVAL Valenzia M 3 is a high temperature heavy duty grease for long-time lubrication under strong conditions. It contains an effective content of solid lubricants reducing friction. MOLYDUVAL Valenzia M 3, a lithium based complex EP grease of new kind. Such greases have a wider application range than conventional lithium based EP greases in spite of their high mechanical and thermal stability. MOLYDUVAL Valenzia M 3 contains special EP and anti wear additives for wear endangered bearings.

Base Fluid : Min  
Name : ISO-L-XCEIB3  
Name : KPF3R-30  
Consistency Class NLGI : 3  
Density 15°C : 960 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 280 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia Z 2

### White High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications.

Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 950 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1-100 Grade

# MOLYDUVAL Valenzia Z 2 SP 12

## White High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1-100 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Cronos Textile Machinery Lubricants

## MOLYDUVAL Cronos ME 46

### Synthetic Textile Machinery Oil

Semi-synthetic oil based on a combination of ester and highly refined mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : Ester, Min  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity 100°C : 7,4 mm<sup>2</sup>/s  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : > 190 °C

## MOLYDUVAL Cronos E 10

### Synthetic Textile Machinery Oil

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 10 ISO-VG  
Viscosity 40°C : 9,6 mm<sup>2</sup>/s  
Viscosity Index : 147  
Density 40°C : 930 kg/m<sup>3</sup>  
Pour point : -62 °C  
Flash Point COC : 205 °C

## MOLYDUVAL Cronos E 15

### Synthetic Textile Machinery Oil

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 10/15 ISO-VG  
Viscosity 40°C : 14 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 930 kg/m<sup>3</sup>  
Pour point : -62 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Cronos E 22

### Synthetic Textile Machinery Oil

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -54 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Cronos E 32

### Synthetic Textile Machinery Oil

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : 140  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -48 °C  
Flash Point COC : 220 °C

## MOLYDUVAL Cronos E 46

### Synthetic Textile Machinery Oil

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -45 °C  
Flash Point COC : 250 °C

## **MOLYDUVAL Cronos E 68**

### **Synthetic Textile Machinery Oil**

Pure synthetic oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

It is also effective in the lubrication of air tools and other high speed machine tools.

Base Fluid : Ester  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -45 °C  
Flash Point COC : 250 °C

## **MOLYDUVAL Cronos GW 15 L**

### **Synthetic Textile Machinery Oil**

Synthetic polyglycol oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : PG  
Name : PGLP15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 1100 kg/m<sup>3</sup>  
Flash Point COC : > 170 °C

## **MOLYDUVAL Cronos GW 15 L**

### **Synthetic Textile Machinery Oil**

Synthetic polyglycol oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : PG  
Name : PGLP15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 1100 kg/m<sup>3</sup>  
Flash Point COC : > 170 °C

## **MOLYDUVAL Cronos GW 22 L**

### **Synthetic Textile Machinery Oil**

Synthetic polyglycol oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : PG  
Name : PGLP22  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Pour point : -39 °C  
Flash Point COC : > 170 °C

## **MOLYDUVAL Cronos GW 32 L**

### **Synthetic Textile Machinery Oil**

Synthetic polyglycol oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : PG  
Name : PGLP32  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : 130  
Density 40°C : 1000 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : > 170 °C

## **MOLYDUVAL Cronos M 100**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm<sup>2</sup>/s  
Viscosity Index : 95  
Density 40°C : 885 kg/m<sup>3</sup>  
Pour point : -10 °C  
Flash Point COC : 260 °C

## **MOLYDUVAL Cronos M 15**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s

## **MOLYDUVAL Cronos M 150**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 900 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Cronos M 22**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 97  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 175 °C

## **MOLYDUVAL Cronos M 22 PSE**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity Index : 97  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 175 °C



## **MOLYDUVAL Cronos M 220**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Cronos M 32**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity Index : 100  
Density 40°C : 880 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 200 °C

## **MOLYDUVAL Cronos M 46**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 97  
Density 40°C : 860 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : 180 °C

## **MOLYDUVAL Cronos M 5**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 10 ISO-VG  
Viscosity 40°C : 10 mm<sup>2</sup>/s

## **MOLYDUVAL Cronos M 68**

### **Textile Machinery Oil**

Clear mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations. It is also effective in the lubrication of air tools and other high speed machine tools. Available also in other viscosities.

Base Fluid : Min  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Viscosity Index : 95  
Density 40°C : 875 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : 245 °C

## **MOLYDUVAL Cronos ME 32**

### **Synthetic Textile Machinery Oil**

Semi-synthetic oil based on a combination of ester and highly refined mineral oil intended for use in spinning frame bolsters, sewing machines, knitting machines and as a textile ring lubricant in spinning, twisting and draw-twisting operations.

Base Fluid : Ester, Min  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Viscosity 100°C : 5,3 mm<sup>2</sup>/s  
Density 40°C : 870 kg/m<sup>3</sup>  
Pour point : -12 °C  
Flash Point COC : > 190 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Rabilub

## Rapidly Biodegradable Gear Oils

### MOLYDUVAL Rabilub GE 220

#### Synthetic Biodegradable Gear Oil

With this lubricant, a relatively highly viscous fluid is available for industrial applications such as bearing and gear lubrication, which is biodegradable and was developed with a view to improving the environmental compatibility of leakage oil. Synthetic esters, which biodegrade quickly, are used as the base oil. As a fully synthetic, wear-reducing, corrosion-protecting oil, it can replace mineral and vegetable oils that are used, for example, in forestry, locks, sewage treatment plants or mining. Synthetic oils of this type outperform native (vegetable) lubricating oils that are often used in terms of temperature behavior and long-term stability.

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 145  
Density 40°C : 990 kg/m³  
Pour point : -27 °C  
Flash Point COC : > 260 °C  
Biodegradability : 75 %  
Wear Protection FZG test : 12 Grade  
Wear Protection VKA welding load : 2200 N

### MOLYDUVAL Rabilub GE 220 NWG

#### Synthetic Biodegradable Gear Oil

This lubricant provides a relatively highly viscous fluid for industrial applications such as bearing and gear lubrication, which is biodegradable and is not considered to be hazardous to water. It was developed with a view to improving the environmental compatibility of leak oil. Synthetic esters, which are not classified as hazardous to water, are used as the base oil. As a 100% synthetic, wear-reducing, corrosion-protecting oil, it can replace mineral and vegetable oils, which e.g. be used in forestry, locks, sewage treatment plants or mining.

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Density 40°C : 980 kg/m³  
Pour point : -41 °C  
Flash Point COC : 300 °C

### MOLYDUVAL Rabilub GE 85

#### Synthetic Biodegradable Gear Oil

Developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Base Fluid : Ester  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 82 mm²/s  
Viscosity 100°C : 12 mm²/s  
Viscosity Index : 140  
Density 40°C : 930 kg/m³  
Flash Point COC : 270 °C  
Pour point : -30 °C

### MOLYDUVAL Rabilub GE 100

#### Synthetic Biodegradable Gear Oil

Developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Base Fluid : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 16 mm²/s  
Viscosity Index : 180  
Density 40°C : 940 kg/m³  
Flash Point COC : ca. 280 °C

### MOLYDUVAL Rabilub GE 100 NWG

#### Synthetic Biodegradable Gear Oil

This lubricant is a relative high viscous fluid, biodegradable and is considered to be not

Base Fluid : Ester  
Viscosity Class : ca. 100 ISO-VG

hazardous for water acc to German WHG suitable for industrial applications such as bearing and gear lubrication. It was developed with a view to better environmental performance of oil leakage.

Viscosity 40°C : 100 mm²/s  
Viscosity 100°C : 10,2 mm²/s  
Density 40°C : 950 kg/m³  
Pour point : -36 °C  
Flash Point COC : 270 °C

As base oil, synthetic esters are used, which are classified as non-hazardous for water. As a 100% synthetic, antiwear, corrosion protective oil can replace mineral and vegetable oils, for example, be used in forestry, with locks, in sewage treatment plants and mining.

## MOLYDUVAL Rabilub GE 1000

### Synthetic Biodegradable Gear Oil

This lubricant is a relatively high viscosity fluid, which is biodegradable and has been developed with a view to better environmental performance of oil leakage for industrial applications such as bearing and gear lubrication. As base oil synthetic esters are used. It protects very well against wear and corrosion and can replace mineral and vegetable oils, e.g. are used in forestry, with locks, in sewage treatment plants or in mining. Synthetic oils of this type surpass native (vegetable) oils commonly used in terms of temperature behavior and long-term stability.

Base Fluid : Ester  
Viscosity Class : 1000 ISO-VG  
Viscosity 40°C : 1000 mm²/s  
Viscosity 100°C : 84 mm²/s  
Viscosity Index : 164  
Density 40°C : 1030 kg/m³  
Pour point : -21 °C  
Flash Point COC : 295 °C  
Biodegradability : 79 %

## MOLYDUVAL Rabilub GE 150 NWG

### Synthetic Biodegradable Gear Oil

This lubricant is a relative high viscous fluid, biodegradable and is considered to be not hazardous for water acc to German WHG suitable for industrial applications such as bearing and gear lubrication. It was developed with a view to better environmental performance of oil leakage.

Base Fluid : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Density 40°C : 950 kg/m³  
Pour point : -36 °C  
Flash Point COC : 270 °C

As base oil, synthetic esters are used, which are classified as non-hazardous for water. As a 100% synthetic, antiwear, corrosion protective oil can replace mineral and vegetable oils, for example, be used in forestry, with locks, in sewage treatment plants and mining.

## MOLYDUVAL Rabilub GE 220 LC

### Synthetic Biodegradable Gear Oil

Developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm²/s  
Viscosity Index : 174  
Density 40°C : 970 kg/m³  
Flash Point COC : 290 °C  
Pour point : -30 °C  
Wear Protection FZG test : 12 Grade

oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

## MOLYDUVAL Rabilub GE 320

### Synthetic Biodegradable Gear Oil

Biodegradable high-performance gear oil, based on saturated synthetic complex esters. As a 100% synthetic, antiwear, corrosion protective gear oil it can replace high treated mineral oils, used in wind turbines, in forestry, in locks, in sewage treatment plants and mining. Synthetic oils of this type often outperform native esters and TMP esters in temperature behavior and long-term stability.

Wear Protection VKA welding load : 1400 N

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 150  
Density 40°C : 920 kg/m³  
Pour point : -40 °C  
Flash Point COC : 260 °C

## MOLYDUVAL Rabilub GE 320 LC

### Synthetic Biodegradable Gear Oil

Developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 320 mm²/s  
Viscosity Index : 174  
Density 40°C : 900 kg/m³  
Pour point : -20 °C  
Flash Point COC : 300 °C  
Wear Protection VKA welding load : 1400 N

## MOLYDUVAL Rabilub GE 320 LCX

### Synthetic High Temperature Chain Oil

A 100% synthetic ester based, very high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Basis : Ester  
Viscosity 40°C : 320 mm²/s  
Viscosity 100°C : 32 mm²/s  
Viscosity Index : 145  
Density 40°C : 940 kg/m³  
Temperature Range : -30 -> +250 °C  
Flash Point COC : > 280 °C  
Pour point : -39 °C

## MOLYDUVAL Rabilub GE 320 X

### Biodegradable Lubrication Oil

Biodegradable lubrication oil developed with the environmental hazards of oil disposal in mind. Made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 340 mm²/s  
Viscosity 100°C : 42 mm²/s  
Viscosity Index : 176  
Density 40°C : 900 kg/m³  
Pour point : -21 °C  
Flash Point COC : > 300 °C  
Evaporation Loss 200°C : 0,1 %  
Evaporation Loss 300°C : 1,0 %

As premium quality antiwear and hydraulic



oil, it's intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication oils.

## MOLYDUVAL Rabilub GE 460 L

### Synthetic Biodegradable Gear Oil

With this lubricant, a relatively highly viscous fluid is available for industrial applications such as bearing and gear lubrication, which is biodegradable and was developed with a view to improving the environmental compatibility of leakage oil. Synthetic esters, which biodegrade quickly, are used as the base oil. As a fully synthetic, wear-reducing, corrosion-protecting oil, it can replace mineral and vegetable oils that are used, for example, in forestry, locks, sewage treatment plants or mining. Synthetic oils of this type outperform native (vegetable) lubricating oils that are often used in terms of temperature behavior and long-term stability.

Biodegradability : > 90 %  
Wear Protection FZG test : 12 Grade

Base Fluid : Ester  
Viscosity Class : 460 ISO-VG  
Viscosity 40°C : 490 mm²/s  
Viscosity Index : 150  
Density 40°C : 940 kg/m³  
Pour point : -39 °C  
Flash Point COC : 285 °C  
Biodegradability : 73 %  
Wear Protection FZG test : 12 Grade  
Wear Protection VKA welding load : 2200 N

## MOLYDUVAL Rabilub GE 68 L

### Synthetic Biodegradable Gear Oil

Was developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Base Fluid : Ester  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Density 40°C : 940 kg/m³  
Flash Point COC : 270 °C

## MOLYDUVAL Rabilub GE 680

### Synthetic Biodegradable Gear Oil

With this lubricant, a relatively highly viscous fluid is available for industrial applications such as bearing and gear lubrication, which is biodegradable and was developed with a view to improving the environmental compatibility of leakage oil. Synthetic esters, which biodegrade quickly, are used as the base oil. As a fully synthetic, wear-reducing, corrosion-protecting oil, it can replace mineral and vegetable oils that are used, for example, in forestry, locks, sewage treatment plants or mining. Synthetic oils of this type outperform native (vegetable) lubricating oils that are often used in terms of temperature behavior and long-term stability.

Base Fluid : Ester  
Viscosity Class : 680 ISO-VG  
Viscosity 40°C : 680 mm²/s  
Viscosity 100°C : 63 mm²/s  
Viscosity Index : 150  
Density 40°C : 940 kg/m³  
Pour point : -24 °C  
Flash Point COC : 295 °C  
Biodegradability : 75 %  
Wear Protection FZG test : 12 Grade  
Wear Protection VKA welding load : 2200 N

## MOLYDUVAL Rabilub GEN 100

### Biodegradable Gear Oil

Was developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Viscosity 40°C : 83 mm²/s  
Viscosity 100°C : 18 mm²/s  
Viscosity Index : 235  
Density 40°C : 920 kg/m³  
Pour point : -27 °C  
Flash Point COC : 300 °C  
Wear Protection VKA welding load : 2200 N

## MOLYDUVAL Rabilub GEN 150

### Biodegradable Gear Oil

Was developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear oil, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Viscosity 40°C : 150 mm²/s  
Viscosity Index : 235  
Density 40°C : 920 kg/m³  
Pour point : -27 °C

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

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All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Rabilub

## Rapidly Biodegradable Hydraulic Oils

### MOLYDUVAL Rabilub HEB 22 NWG

#### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic hydraulic oil for simple applications. Synthetic, biodegradable esters that are not hazardous to water are used as the base oil.

Base Fluid : Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Density 40°C : 890 kg/m<sup>3</sup>  
Biodegradability : > 85 %

### MOLYDUVAL Rabilub HED 22

#### Synthetic Biodegradable Hydraulic Fluid

Base Fluid : Ester  
Name : ELP22  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Viscosity 100°C : 4,8 mm<sup>2</sup>/s  
Density 40°C : 920 kg/m<sup>3</sup>  
Flash Point COC : 220 °C  
Pour point : -54 °C

### MOLYDUVAL Rabilub HEN 22

#### Biodegradable Lubrication Oil

Base Fluid : Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Density 40°C : 910 kg/m<sup>3</sup>  
Lubricating Ability FZG test : > 12 Grade  
Flash Point COC : 280 °C  
Biodegradability : > 97 %

### MOLYDUVAL Rabilub HEN 32

#### Biodegradable Lubrication Oil

Biodegradable lubrication oil developed with the environmental hazards of oil disposal in mind. Made from a combination of special refined native and synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test.

As premium quality antiwear and hydraulic oil, it's intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication oils.

Base Fluid : Ester  
Viscosity Class : 32 ISO-VG  
Viscosity 40°C : 32 mm<sup>2</sup>/s  
Density 40°C : 920 kg/m<sup>3</sup>  
Lubricating Ability FZG test : > 12 Grade  
Flash Point COC : 260 °C  
Biodegradability : > 97 %

### MOLYDUVAL Rabilub HEB 10

#### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics. As base fluid synthetic biodegradable esters are used. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Syn  
Name : ELP10  
Viscosity Class : 10 ISO-VG  
Viscosity 40°C : 10 mm<sup>2</sup>/s  
Density 40°C : 910 kg/m<sup>3</sup>  
Flash Point COC : 225 °C  
Pour point : -69 °C

## MOLYDUVAL Rabilub HEB 100

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics, which fulfill the requirements of HLP hydraulic oils DIN 51524 T2. As base fluid synthetic esters are used, which diminish themselves according to the European test method CEC L-33-T82 after 21 days to 90% biologically. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Viscosity Class : 100 ISO-VG  
Viscosity 40°C : 100 mm²/s  
Viscosity Index : 190  
Density 40°C : 900 kg/m³  
Pour point : -20 °C  
Flash Point COC : 290 °C  
Wear Protection VKA welding load : 1400 N

## MOLYDUVAL Rabilub HEB 15

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics. As base fluid synthetic biodegradable esters are used. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Name : ELPT15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 14 mm²/s  
Viscosity 100°C : 3,9 mm²/s  
Viscosity Index : 170  
Density 40°C : 910 kg/m³  
Temperature Range : -60 -> +150 °C  
Pour point : < -70 °C  
Flash Point COC : 225 °C

## MOLYDUVAL Rabilub HEB 15

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics. As base fluid synthetic biodegradable esters are used. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Name : ELPT15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 14 mm²/s  
Viscosity 100°C : 3,9 mm²/s  
Viscosity Index : 170  
Density 40°C : 910 kg/m³  
Temperature Range : -60 -> +150 °C  
Pour point : < -70 °C  
Flash Point COC : 225 °C

## MOLYDUVAL Rabilub HEB 22

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics. As base fluid synthetic biodegradable esters are used. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm²/s  
Density 40°C : 910 kg/m³  
Pour point : -52 °C

## MOLYDUVAL Rabilub HEB 32

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics. As base fluid synthetic biodegradable esters are used. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Viscosity 40°C : 32 mm²/s  
Viscosity Index : 185  
Density 40°C : 920 kg/m³  
Pour point : -54 °C  
Flash Point COC : 240 °C  
Biodegradability : > 90 %  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## MOLYDUVAL Rabilub HEB 46

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics, which fulfill the requirements of HLP hydraulic oils DIN 51524 T2. As base fluid synthetic esters are used, which diminish themselves according to the European test method CEC L-33-T82 after 21 days to 90% biologically. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 9,2 mm²/s  
Viscosity Index : 185  
Density 40°C : 920 kg/m³  
Pour point : -45 °C  
Flash Point COC : 265 °C  
Demulsifying Ability : 40/40/0  
Biodegradability : > 80 %  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## MOLYDUVAL Rabilub HEB 68

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high speed hydraulic oil for industrial and mobile hydraulics, which fulfill the requirements of HLP hydraulic oils DIN 51524 T2. As base fluid synthetic esters are used, which diminish themselves according to the European test method CEC L-33-T82 after 21 days to 90% biologically. As wear-reducing hydraulic fluid it can replace vegetable oils, which are used e.g. in forestry and in the mining industry and which requirements regarding temperature behavior and long-term stability not to be sufficient.

Base Fluid : Ester  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : 185  
Density 40°C : 920 kg/m³  
Pour point : -39 °C  
Flash Point COC : 265 °C  
Demulsifying Ability : 40/40/0  
Biodegradability : > 80 %  
Wear Protection FZG Test A/8.3/90 : 12 Grade

## MOLYDUVAL Rabilub HED 32

### Synthetic Biodegradable Hydraulic Fluid

Viscosity 40°C : 32 mm²/s  
Viscosity 100°C : 5,9 mm²/s  
Viscosity Index : 140  
Density 40°C : 920 kg/m³  
Pour point : -50 °C  
Flash Point COC : > 210 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade



## MOLYDUVAL Rabilub HED 46

### Synthetic Biodegradable Hydraulic Fluid

A biodegradable, synthetic high-performance hydraulic oil for industrial and mobile hydraulics. Synthetic, biodegradable diesters are used as the base oil, which are 90% biodegradable after 21 days according to the European test method CEC L-33-T82. As a wear-reducing hydraulic fluid, it can replace vegetable oils that are used, for example, in forestry and mining and do not meet the requirements in terms of temperature behavior and long-term stability.

Base Fluid : Ester  
Name : ELP46  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity 100°C : 7,5 mm<sup>2</sup>/s  
Density 40°C : 960 kg/m<sup>3</sup>  
Evaporation Loss 22h 149°C : 1 %  
Pour point : -40 °C  
Flash Point COC : 252 °C

## MOLYDUVAL Rabilub HEN 46

### Biodegradable Lubrication Oil

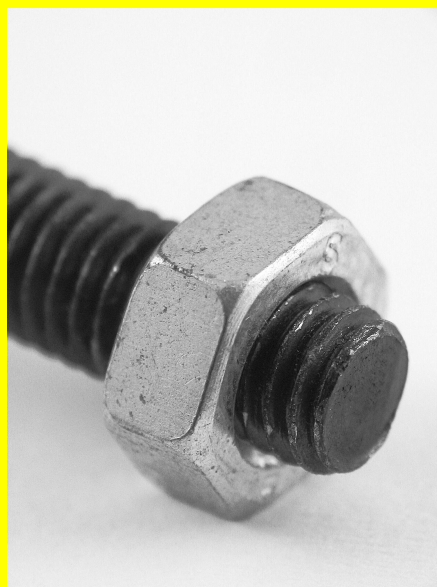
Biodegradable lubrication oil developed with the environmental hazards of oil disposal in mind. Made from a combination of special refined native and synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test.

Base Fluid : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 40 mm<sup>2</sup>/s  
Density 40°C : 920 kg/m<sup>3</sup>  
Lubricating Ability FZG test : > 12 Grade  
Flash Point COC : 280 °C  
Biodegradability : > 97 %

As premium quality antiwear and hydraulic oil, it's intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication oils.

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Quick Assembly Pastes

## MOLYDUVAL Quick BA 2 C

### Metal-Free High Temperature Paste

An extrem pressure graphite paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste.

It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used for srews in refineries and power plants.

Base Fluid : PAO  
Name : MPF2U-50  
Consistency Class NLGI : 2  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Quick BM 1 C

### Metal-Free High Temperature Paste

A soft EP high performance paste for lubrication and separation at high temperatures, it is often used in metal forming and lubrication in humid environments.

Base Fluid : Min  
Name : MPF1  
Consistency Class NLGI : 1  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -20 -> +700 °C  
solids : Graphite --

## MOLYDUVAL Quick BM 2 CM

### Assembly and Multipurpose Paste with MoS2

A extrem pressure paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Name : MPF1,5U-30  
Viscosity Base Fluid, 100°C : 100 mm<sup>2</sup>/s  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -35 -> +450 °C  
Dropping Point : no °C  
Temperature Range : 630 °C  
Fineness Ø, MoS2 : 1,5 µm  
Productiveness : 40 m<sup>2</sup>/kg

## MOLYDUVAL Quick BM 3 XM

### MoS2 Assembly and Multipurpose Paste

A molybdenumdisulphide (MoS2) paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Density 15°C : 1800 kg/m<sup>3</sup>  
Temperature Range : -20 -> +450 °C  
Dropping Point : no °C  
Content solid lubricants : 65 %  
Fineness Ø, MoS2 : 2,0 µm

## MOLYDUVAL Quick BA 1 CC

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : PAO  
Name : MPF1R  
Name : OGPf1R  
Consistency Class NLGI : ca. 1  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Density 15°C : 1330 kg/m<sup>3</sup>  
Temperature Range : -40 -> +700 °C  
Dropping Point : no °C  
Wear Protection VKA welding load : 7000 N

## MOLYDUVAL Quick BA 1 CC

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear,

Base Fluid : PAO  
Name : MPF1R  
Name : OGPf1R  
Consistency Class NLGI : ca. 1  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Density 15°C : 1330 kg/m<sup>3</sup>  
Temperature Range : -40 -> +700 °C

running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Dropping Point : no °C  
Wear Protection VKA welding load : 7000 N

## MOLYDUVAL Quick BA 1 CNHZ

### Metal-Free High Temperature Paste

A grey colored high temperature lubrication compound for hot metal working and as separating agent for moulds and tools. Base Fluid is a synthetic oil com-ponent added with many different solids ensuring the high temperature resistance.

Base Fluid : PAO  
Thickener : anorganic  
Name : MPF1  
Consistency Class NLGI : 1  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1000 °C  
Wear Protection VKA welding load : > 3600 N  
Fineness Ø : < 10 µm

## MOLYDUVAL Quick BA 2 CC

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : PAO  
Name : ISO-L-XDGEB2  
Thickener : MPF2U-40  
Consistency Class NLGI : ca. 2  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -40 -> +700 °C  
Dropping Point : no °C  
Wear Protection VKA welding load : 7000 N

## MOLYDUVAL Quick BA 2 CWN

### Metal-Free High Temperature Paste

A grey colored high temperature lubrication compound for hot metal working and as separating agent for moulds and tools. Base Fluid is a synthetic oil com-ponent added with many different solids ensuring the high temperature resistance.

Base Fluid : Syn  
Thickener : anorganic  
Name : MPF1,5  
Consistency Class NLGI : 1-2  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1400 °C  
Wear Protection VKA welding load : > 3600 N  
Fineness Ø : < 10 µm

## MOLYDUVAL Quick BA 2 MM

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, run-ning-in defects and guarantees good antifrictional properties.

Base Fluid : PAO  
Name : ISO-L-XEGEB2  
Thickener : MPF2U-50  
Consistency Class NLGI : 2  
Density 15°C : 1200 kg/m<sup>3</sup>  
Temperature Range : -50 -> +450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 5000 N  
Fineness Ø, MoS2 : 2,0 µm

## MOLYDUVAL Quick BA 20 CN

### Metal-Free High Temperature Paste

A grey colored high temperature lubrication compound for hot metal working and as

Base Fluid : Syn  
Thickener : anorganic

separating agent for moulds and tools. Base Fluid is a synthetic oil com-ponent added with many different solids ensuring the high temperature resistance.

Consistency Class NLGI : 000  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1000 °C  
Fineness Ø : < 10 µm

## MOLYDUVAL Quick BA 3 CC

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : Ester  
Name : MPF2,5S  
Consistency Class NLGI : 2-3  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Density 15°C : 1500 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1400 °C  
Dropping Point : no °C  
Wear Protection VKA welding load : 7000 N

## MOLYDUVAL Quick BA 60 CN

### Metal-Free High Temperature Paste

A grey colored high temperature lubrication compound for hot metal working and as separating agent for moulds and tools. Base Fluid is a synthetic oil com-ponent added with many different solids ensuring the high temperature resistance.

Base Fluid : Syn  
Thickener : anorganic  
Consistency Class NLGI : ca. 000000  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1000 °C  
Fineness Ø : < 10 µm

## MOLYDUVAL Quick BE 2 M

### MoS2 Assembly and Multipurpose Paste

A low temperature MoS2 lubrication paste, suitable as running-in and assembly paste for extreme pressures at low temperatures. MOYDUVAL Quick T reduces friction and abrasion, so that assembly and disassembly will be made easier. The solid lubricant MoS2 protects from running-in defects and guarantees good antifrictional properties. Different other additives and solid lubricants increases the operating security in a wide application range.

Base Fluid : Syn  
Name : MPF1,5U-70  
Consistency Class NLGI : 1-2  
Consistency, Penetration 25°C : 290 · 0,1 mm  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -70 -> +450 °C  
Friction Coefficient : 0,02  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 5000 N  
Fineness Ø : 2,0 µm

## MOLYDUVAL Quick BG 2 MC

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : PG  
Name : MPFPG2R  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 100°C : 320 mm<sup>2</sup>/s  
Density 15°C : 1500 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1000 °C  
Dropping Point : -- °C

Caused by its polyglycol base fluid there are no hydrocarbon crack residues with this paste.

## MOLYDUVAL Quick BM 0 C

### Metal-Free High Temperature Paste

A very soft extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste.

Reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : Min  
Name : MPF0/00  
Consistency Class NLGI : 0-00  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -40 -> +700 °C  
solids : graphite --

## MOLYDUVAL Quick BM 2 MM

### High Pressure Lubrication with MoS2

A high pressure-steady MoS2-Paste for lubrication maximum pressure and maximum temperature-loaded sliding places and storage. It serves also as intake and assembly paste with extreme loads (high pressures, high temperatures). It decreases friction and wear, which assembly and disassembly of screws -, pin and similar connections or made possible by Black paste is facilitated only.

Base Fluid : Min  
Name : MPF2U-30  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 1150 kg/m<sup>3</sup>  
Temperature Range : -30 -> +450 °C  
Dropping Point : -- °C

## MOLYDUVAL Quick BM 3 CHV

### Assembly and Hich Temperature Paste

An EP high performance paste for lubrication, separation and sealing at highest temperatures. It is mainly used for slow sliding movements, but high temperatures and pressures. Particularly well-proven as a release agent in hot metal forming and as a sealing paste for threads.

Base Fluid : Mineral  
Name : ISO-L-XBGEB3  
Name : MPF3U-20  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 100°C : 100 mm<sup>2</sup>/s  
Temperature Range : -20 -> +700 °C  
Temperature Range : 1000 °C  
Dropping Point : no °C  
Content solid lubricants : > 50 %

## MOLYDUVAL Quick BM 3 MM

### MoS2 Assembly and Multipurpose Paste

A molybdenumdisulphide (MoS2) paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Density 15°C : 1800 kg/m<sup>3</sup>  
Temperature Range : -20 -> +450 °C  
Dropping Point : no °C  
Content solid lubricants : 65 %  
Fineness Ø, MoS2 : 2,0 µm

## MOLYDUVAL Quick CM 2 C

### Graphite Compound

A graphited paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose

Base Fluid : Min  
Name : MF2G-20  
Density 15°C : 1010 kg/m<sup>3</sup>

paste. Contains purest Graphite, reduces friction and wear, assembly and disassembly is going easier. The solid lubricant Graphite protects against wear, running-in defects and offers very good antifrictional properties. Much used in high temperature metal forming.

The paste is dark grey in appearance and can be applied by brush or spatula.

Temperature Range : -20 -> +100 °C  
Temperature Range solid lubrication : 760 °C  
Content graphite : 10 %  
solids : Graphite --

## MOLYDUVAL Quick CM 2 CMWS

### Assembly and Multi Purpose Paste

A high-performance black EP-paste with graphite, molybdenum and tungsten-disulphide, for use on open gears, wire ropes and joints or spindles in humid surroundings. The solid lubricants protect against wear, and running-in defects and reduce friction.

Base Fluid : Min  
Name : MF2G-20  
Consistency Class NLGI : 2  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -20 -> +1400 °C  
Fineness : <10 µm

## MOLYDUVAL Quick GM

### Graphite Compound

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used in high temperature metal forming.

Base Fluid : PAO  
Name : MPF1R  
Name : OGPf1R  
Consistency Class NLGI : ca. 1  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -40 -> +700 °C  
Dropping Point : no °C  
Wear Protection VKA welding load : 7000 N

## MOLYDUVAL Quick GN

### Metal-Free High Temperature Paste

An extrem pressure graphite paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used for screws in refineries and power plants.

Base Fluid : PAO  
Name : MPF2U-50  
Consistency Class NLGI : 2  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Quick LG 1 BR

### Synthetic Brake Cylinder Paste

Soft synthetic special grease for mounting gaskets, surfaces and guides in special applications where there is a metal / plastic or metal / elastomer contact. Especially suitable for assembly and lubrication of O-rings, lip seals and cuffs made of rubber-elastic materials in hydraulic brake systems of motor vehicles.

Base Fluid : PAG  
Name : ISO-L-XDCEB1  
Name : KPPG1K-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -40 -> +120 °C  
Dropping Point : 190 °C



## MOLYDUVAL Quick Paste

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Name : MFLPF1,5U-30  
Consistency, Penetration 25°C : 275 · 0,1 mm  
Density 15°C : 1700 kg/m<sup>3</sup>  
Temperature Range : -35 -> +450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 5000 N  
Fineness Ø, MoS2 : 2,0 µm

## MOLYDUVAL Quick PG

### MoS2 Assembly and Multipurpose Paste

A synthetic MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : PG  
Name : ISO-L-XBGAB2,5  
Name : MPF2,5S-20  
Consistency Class NLGI : ca. 2-3  
Density 15°C : 1500 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range solid lubrication : +700 °C  
Dropping Point : no °C

## MOLYDUVAL Quick Spray

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, run-ning-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Name : MFLPF1U-30  
Density 40°C : 1700 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 5000 N  
Fineness Ø, MoS2 : 2,0 µm

## MOLYDUVAL Quick SS 2 M

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures) with excellent plastics and rubber copatibility. It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, run-ning-in defects and guarantees good antifrictional properties.

Base Fluid : Silicone  
Consistency Class NLGI : 2  
Density 15°C : 1500 kg/m<sup>3</sup>  
Temperature Range : -50 -> +450 °C  
Wear Protection VKA welding load : 2600 N

## MOLYDUVAL Quick TOP

### Metal-Free High Temperature Paste

A grey colored high temperature lubrication compound for hot metal working and as separating agent for moulds and tools. Base Fluid is a synthetic oil com-ponent added with many different solids ensuring the high temperature resistance.

Base Fluid : Syn  
Thickener : anorganic  
Name : MPF1,5  
Consistency Class NLGI : 1-2  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -30 -> +1000 °C

Wear Protection VKA welding load : > 3600 N  
Fineness Ø : < 10 µm

## MOLYDUVAL Quick UM 2 CM

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, running-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Name : MFLPF1,5U-50  
Consistency, Penetration 25°C : 275 · 0,1 mm  
Density 15°C : 1700 kg/m<sup>3</sup>  
Temperature Range : -50 -> +450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Fineness Ø, MoS2 : 2,0 µm

### Weitere Informationen erhalten Sie von den Mitarbeitern unserer Anwendungstechnik !

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# MOLYDUVAL Soraja Greases for Food Industry

## MOLYDUVAL Soraja CSA 0 HV Heavy Duty Grease for Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high viscosity synthetic base fluid PAO. Its outstanding natural properties are enhanced with carefully selected additives. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium to high speed bearings, sealed for life bearings and in most extended life operations. Developed for applications in Food Industry.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XCEEBO  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -35 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 4000 N  
Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CSA 15 MV Heavy Duty Grease for Food Industry

A top-class special lubricating grease with exceptional properties. Due to a special calcium sulfonate complex thickener, it is very pressure-resistant, long-term stable and water-resistant. It ensures a longer service life than conventional multi-purpose and long-term greases. In addition, it is very temperature-resistant. The good EP properties of the soap thickener ensure emergency running properties. Developed and approved for use in the food industry. Complies with NSF H1.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB1,5  
Name : KPHC1,5S-40  
Consistency Class NLGI : 1-2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Dropping Point : > 300 °C  
Wear Protection Timken EP test : 27 lbs  
Wear Protection VKA welding load : 4000 N  
Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CSM 15 LMV Heavy Duty Grease for Food Industry

A special lubricating grease with exceptional high-pressure properties due to the special calcium sulfonate complex thickener. It is extremely pressure-resistant, wear-resistant, long-term stable and water-resistant. Provides longer service life than conventional general purpose and extended life greases and also than most food grade greases. The good EP properties of the soap thickener also ensure emergency running properties. Developed for applications in the food industry. Conforms to NSF H1.

Thickener : CaS  
Name : ISO-L-XCFIB1,5  
Name : KP1,5R-30  
Consistency Class NLGI : 1-2  
Density 15°C : 1050 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : 5000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja QTE 2 Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : Ester  
Thickener : PTFE  
Consistency Class NLGI : ca. 2  
Temperature Range : -20 -> 230 °C  
Dropping Point : NO °C

## MOLYDUVAL Soraja AKA 0 HV High Temp Grease for Food Industry

Base Fluid : PAO  
Thickener : AlK  
Name : ISO-L-XDEIBO  
Name : KPHC0P-40

Consistency Class NLGI : 0  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 0 LT

### Low Temp Grease for Food Industry

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XECHB0  
Name : KPHC0K-50  
Consistency Class NLGI : 0  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 32 mm<sup>2</sup>/s  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 0 T

### High Temp Grease for Food Industry with PTFE

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB0  
Name : KPFHC0P-40  
Consistency Class NLGI : 0  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 0 TLT

### Low Temp Grease for Food Industry

A very soft, low and high temperature resistant roller bearing grease offering good wear and water resistance, corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic low viscous polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : KPHC0P-40  
Consistency Class NLGI : 0  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -50 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
solids : PTFE --  
Content PTFE : 3 %

## MOLYDUVAL Soraja AKA 1

### High Temp Grease for Food Industry

A soft, temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB1  
Name : KPHC1P-40  
Consistency Class NLGI : 1  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 1 LT

### Low Temp Grease for Food Industry

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XECHB1  
Name : KPHC1K-50  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 32 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 1 MV

### Grease for Food Industry

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB1  
Name : KPHC1P-50  
Consistency Class NLGI : 1  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 1 PZ

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XEEIB1  
Name : KPFHC1P-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 350 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>



lubrication points in food industry, because it conforms to the regulations of USDA H1.

Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Soraja AKA 1 THV

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XBEIB1  
Name : KPFHC1P-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1000 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : 200 °C  
Water Resistance 80°C : 1,5 %  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection Copper 24h 100°C : 1 B Note

## MOLYDUVAL Soraja AKA 2

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 HV

### Food Grade Lubrication Grease

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -45 -> +160 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 LT

### Low Temp Grease for Food Industry

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 50 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -65 -> +220 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 MV

### Grease for Food Industry

A white, very water resistant, synthetic rolling bearing grease for the food industry. The combination of a modern, highly water-resistant soap in conjunction with a synthetic hydrocarbon, manufactured to a high degree of purity in modern manufacturing facilities. Contains antioxidants, anti-corrosion additives has good sealing properties. The aluminium complex thickener also ensures good high-temperature stability.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDDIB2  
Name : KPHC2P-50  
Consistency Class NLGI : 2  
Density 15°C : 840 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 230 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 PZ

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XEEIB2  
Name : KPFHC2P-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 350 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Soraja AKA 2 T

### High Temp Grease for Food Industry with PTFE

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB2  
Name : KPFHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +170 °C

lubrication points in food industry, because it conforms to the regulations of USDA H1.

Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 THV

### Food Grade Lubrication Grease

A temperature resistant roller bearing grease with PTFE offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB2  
Name : KPFHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 2 XV

### Synthetic High Speed Grease

A special, synthetic high-speed grease for the long-term lubrication of roller and plain bearings in the food industry. Suitable for lifetime lubrication. The fat is highly pure, has very good water resistance and good temperature resistance.

Base Fluid : PAO  
Thickener : AIK  
Name : KPFHC2P-40  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 50 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -65 -> +220 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 20

### High Temp Grease for Food Industry

A very soft, adhesive, high performance and high-temperature-resistant soft grease for the food industry. Due to its semi-liquid consistency, it can be used for gear lubrication with provided grease or splash lubrication and for lubrication of rolling bearings via centralized lubrication systems. It provides good wear protection, excellent water resistance and good corrosion protection in combination with the required purity in Food Industry. It complies with the FDA - purity requirements in Directive 21 CFR 178.3570 for occasional inadvertent contact with foodstuffs, the so-called H1 regulation.

Base Fluid : PAO  
Name : ISO-L-XDEIB00  
Name : KPHC00P-40  
Consistency Class NLGI : 00  
Worked Penetration : 400-430 · 0,1 mm  
Density 15°C : 850 kg/m³  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Dropping Point : > 220 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 20 LT

### Low Temp Grease for Food Industry

A synthetic fluid grease for the food industry, which is suitable for medium and high speed rolling and sliding bearings as well as for gears at medium and low temperatures. The synthetic base oils, additives and thickeners used comply with FDA guidelines for use on machines in the food industry with occasional food contact. It thus complies with the requirements of the USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XEDIB00  
Name : KPHC00N-50  
Consistency Class NLGI : 00  
Density 15°C : 870 kg/m³  
Temperature Range : -50 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 20 PZ

### High Temp Grease for Food Industry

Virtually odourless and tasteless fully synthetic lubrication flow grease in NLGI 00. It is made with a PAO and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear. Contains solid lubricants offering reduced friction.

Base Fluid : PAO  
Name : ISO-L-XDEIB00  
Name : GPFHC00P-40  
Consistency Class NLGI : 00  
Density 15°C : 920 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKA 20 Z

### High Temp Grease for Food Industry

Virtually odourless and tasteless fully synthetic lubrication flow grease in NLGI 00. It is made with a PAO and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine

Base Fluid : PAO  
Name : ISO-L-XDEIB00  
Name : GPFHC00P-40  
Consistency Class NLGI : 00  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear. Contains solid lubricants offering reduced friction.

## **MOLYDUVAL Soraja AKA 25 MV**

### **High Temp Grease for Food Industry**

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant aluminium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDFIB2  
Name : KPHC2,5R-40  
Consistency Class NLGI : 2-3  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## **MOLYDUVAL Soraja AKA 30**

### **High Temp Grease for Food Industry**

Base Fluid : PAO  
Name : ISO-L-XDEIB000  
Name : KPHC000P-40  
Consistency Class NLGI : 000  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## **MOLYDUVAL Soraja AKA 30 TLT**

### **Low Temp Grease for Food Industry**

A semi-liquid synthetic high duty lubrication grease for high duty gears, bearings and chains in food industry. Based on modern Polyalphaolefines (PAO) it is absolutely food grade (USDA H1) and has better lubrication and oxidation properties than greases based on pharmaceutical white oils. Besides of its excellent high temperature stability it guarantees good wear protection.

Base Fluid : PAO  
Thickener : AIK  
Name : GLPHC000  
Consistency Class NLGI : 000  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C

## **MOLYDUVAL Soraja AKA 40**

### **High Temp Grease for Food Industry**

Base Fluid : PAO  
Name : ISO-L-XDEIB0000  
Name : KPHC0000P-40  
Consistency Class NLGI : 0000  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C

## **MOLYDUVAL Soraja AKM 0**

### **Food Grade Grease for Lubrication Systems**

A very water-resistant rolling bearing and gear lubrication grease for the food industry. Contains anti-oxidation additives that prevent the aging of the grease even at high temperatures, and anti-corrosive additives that protect bearings and metal surfaces against rust and corrosion during heavy humidity or steam. Has excellent water resistance, also against fruit and vegetable juices, and good sealing properties. The aluminum complex thickener also ensures good high temperature stability.

Base Fluid : Isoparaffines  
Name : ISO-L-XBCHB0  
Name : KP0N-20  
Consistency Class NLGI : 0  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : ca. 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## **MOLYDUVAL Soraja AKM 0 ZHV**

### **Special Grease For Food Industry**

Virtually odourless and tasteless flow grease. It is made with a white oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Base Fluid : White Oil  
Name : ISO-L-XCCEB0  
Name : KPF0K-30  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear. Contains solid lubricants offering reduced friction.

## **MOLYDUVAL Soraja AKM 1 P**

### **Food Grade Grease**

Virtually odourless, colourless, and tasteless lubrication grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices.

Base Fluid : White Oil  
Name : ISO-L-XBDHB1  
Name : KP1N-20  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade



Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

## MOLYDUVAL Soraja AKM 1 T

### Food Grade Grease

Virtually odourless, colourless, and tasteless lubrication grease. It is made with a white mineral oil and an anhydrous calcium soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product. Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : White Oil  
Name : ISO-L-XBDHB1  
Name : KPF1N-20  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 1 ZHV

### Special Grease for Food Industry

Virtually odourless and tasteless lubrication grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in

Base Fluid : paraffin oil  
Name : ISO-L-XBDHB1  
Name : KPF1N-20  
Consistency Class NLGI : 1  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 265 °C  
Water Resistance Static : 0 Grade

the bearing.

## MOLYDUVAL Soraja AKM 1 ZL

### Special Grease For Food Industry

Virtually odourless, colourless, and tasteless lubrication grease. It is made with a white mineral oil and an anhydrous calcium soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Base Fluid : White Oil  
Name : ISO-L-XBDHB1  
Name : KPF1N-20  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 350 kg  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 2

### Special Grease for Food Industry

Light lubrication grease made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product. Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Base Fluid : Paraffinic Oil  
Base Fluid : White Oil  
Name : ISO-L-XBDHB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 270 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 2 LV

### Special Grease For Food Industry

Light lubrication grease made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product. Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine

Base Fluid : MWO  
Name : ISO-L-XBDHA2  
Name : K2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 160 mm<sup>2</sup>/s  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade



idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

## MOLYDUVAL Soraja AKM 2 T

### Special Grease For Food Industry

Virtually odourless, colourless, and tasteless lubrication grease. It is made with a white mineral oil and an anhydrous calcium soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : White Oil  
Name : ISO-L-XBDHB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 270 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 2 THV

### Special Grease For Food Industry with PTFE

Virtually odourless and tasteless lubrication grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food

Base Fluid : White Oil  
Name : KPF2P-20  
Consistency Class NLGI : 2  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 265 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Water Resistance Static : 0 Grade  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection copper : 1b Grade  
Content PTFE : 3 %

juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

## MOLYDUVAL Soraja AKM 2 ZHV

### Special Grease for Food Industry

Virtually odourless and tasteless lubrication grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Base Fluid : White Oil  
Name : ISO-L-XBDEB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
nd value n-d : 190.000  
Dropping Point : 265 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 5000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 20

### Food Grade Grease for Lubrication Systems

A very water-resistant rolling bearing and gear lubrication grease for the food industry. Contains anti-oxidation additives that prevent the aging of the grease even at high temperatures, and anti-corrosive additives that protect bearings and metal surfaces against rust and corrosion during heavy humidity or steam. Has excellent water resistance, also against fruit and vegetable juices, and good sealing properties. The aluminum complex thickener also ensures good high temperature stability.

Base Fluid : White Oil  
Name : ISO-L-XBDIB00  
Name : KP00N-20  
Consistency Class NLGI : 00  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : ca. 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 20

### Food Grade Grease for Lubrication Systems

A very water-resistant rolling bearing and gear lubrication grease for the food industry. Contains anti-oxidation additives that prevent the aging of the grease even at high temperatures, and anti-corrosive additives that protect bearings and metal surfaces against rust and corrosion during heavy humidity or steam. Has excellent water resistance, also against fruit and vegetable juices, and good sealing properties. The

Base Fluid : White Oil  
Name : ISO-L-XBDIB00  
Name : KP00N-20  
Consistency Class NLGI : 00  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : ca. 250 °C  
Water Resistance Static : 0 Grade

aluminium complex thickener also ensures good high temperature stability.

Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 20 ZHV

### Special Grease For Food Industry

Virtually odourless and tasteless flow grease. It is made with a white oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear. Contains solid lubricants offering reduced friction.

Base Fluid : White Oil  
Name : ISO-L-XCCEB00  
Name : KPF00K-30  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N

## MOLYDUVAL Soraja AKM 25 ZHV

## MOLYDUVAL Soraja AKM 30 MV

### Food Grade Grease for Lubrication Systems

A very water-resistant rolling bearing and gear lubrication grease for the food industry. Contains anti-oxidation additives that prevent the aging of the grease even at high temperatures, and anti-corrosive additives that protect bearings and metal surfaces against rust and corrosion during heavy humidity or steam. Has excellent water resistance, also against fruit and vegetable juices, and good sealing properties. The aluminium complex thickener also ensures good high temperature stability.

Base Fluid : White Oil  
Name : ISO-L-XBDIB000  
Name : KP00/000N-30  
Consistency Class NLGI : 00/000  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : ca. 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja AKM 30 ZHV

### Special Grease For Food Industry

Virtually odourless and tasteless flow grease. It is made with a white oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal

Base Fluid : White Oil  
Name : ISO-L-XCCEB000  
Name : KPF000K-30  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N

surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear. Contains solid lubricants offering reduced friction.

## MOLYDUVAL Soraja AKMA 15

### Heavy Duty Grease for Food Industry

Special lubrication grease developed for use under extreme conditions of load, temperature and humidity, such as may be found in animal feed granulating presses. It is made with a PAO / white mineral oil combination and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. Contains FDA cleared oxidation inhibitors which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Base Fluid : PAO / White Oil  
Name : ISO-L-XBDHB1,5  
Name : KPF1,5K-20  
Consistency Class NLGI : 1,5  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 260 °C  
Wear Protection VKA wear scar : 0,55 mm  
Wear Protection VKA welding load : 5000 N  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Soraja AKMT Spray

### Grease Spray for Food Industry

A white color lubrication grease in aerosol cans - for bearings, chains, wire ropes, and other lubrication points in case of high pressures or other unfavourable conditions. Very water resistant and long-time stable. The containing combination of synergetic white colour solid lubricants offers protection from tribocorrosion and increases wear resistance. Suitable for Food Industry. Based on modern food grade base stocks in combination with a proofed thickener and additives it is absolutely food grade (USDA H1).

Base Fluid : paraffine oil  
Thickener : AIK  
Name : KPF2K-20  
Viscosity 40°C : 130 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Temperature Range dry lubrication, solid lubrication : 200 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja BA 0 HVP

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry,

Base Fluid : PAO  
Name : ISO-L-XDDEP0  
Name : KPHC0R-30  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 460 mm²/s

because all components conform to the regulations of USDA H1.

Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +150 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 0 LV

### Food Grade Grease

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1. It is very soft and therefore suitable for central lubrication system or bearings with dip lubrication.

Base Fluid : PAO  
Name : ISO-L-XEDEA0  
Name : KHC0N-50  
Consistency Class NLGI : 0  
Density 15°C : 850 kg/m<sup>3</sup>  
Temperature Range : -50 -> +140 °C

## MOLYDUVAL Soraja BA 0 N

### High Temp Grease for Food Industry

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGIB0  
Name : KPFHC0S-20  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : BN --

## MOLYDUVAL Soraja BA 0 T

### High Temp Grease for Food Industry

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGIB0  
Name : KPFHC0S-20  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : PTFE --

## MOLYDUVAL Soraja BA 1 HVT

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XDGEA1  
Name : KHC1S-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -40 -> +200 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 1 HVT

### High Temp Grease for Food Industry

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XCFIB1  
Name : KPFHC1R-30  
Consistency Class NLGI : 0/1  
Viscosity Base Fluid, 40°C : 750 mm<sup>2</sup>/s  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : without °C  
solids : PTFE --

## MOLYDUVAL Soraja BA 1 LV

### Food Grade Grease

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XEEIA1  
Name : KHC1R-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 32 mm<sup>2</sup>/s  
Density 15°C : 820 kg/m<sup>3</sup>  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 1 TZ

### High Temp Grease for Food Industry

A white, PTFE containing heavy duty food grade grease for lubrication of food machinery. Based on Synthetic PAO. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO  
Name : ISO-L-XEDEA1  
Name : KPFHC1R-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 32 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -50 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 HV

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGEB2  
Name : KPHC2S-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 HVT

### High Temp Grease for Food Industry

A synthetic, adhesive, water-resistant grease with PTFE. The special thickener does not melt even at high temperatures, the fat does not drip off. Suitable for slow running bearings, for sealing and as a release agent very well. Contains oxidation additives that

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFHC2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>



prevent the aging of synthetic grease even at high temperatures, anti-corrosive additives that protect bearings and metal surfaces in high humidity or steam from rust, has excellent water resistance, including against fruit and vegetable juices, and good sealing properties.

## MOLYDUVAL Soraja BA 2 HVZ

### High Temp Grease for Food Industry

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFHC2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : PTFE --

## MOLYDUVAL Soraja BA 2 LV

### Food Grade Grease

A light colour low temperature grease for normal loaded bearings in food industry. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It may be used for many applications in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XEEIA2  
Name : KHC2R-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 820 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 MV

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XCGEB2  
Name : KPHC2S-30  
Consistency Class NLGI : 2  
Density 15°C : 890 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 MVT

### Food Grade Grease

A water-resistant, non-dripping, synthetic rolling and plain bearing grease for the food industry. The base oils, additives and the inorganic thickener used comply with the FDA guidelines for use on machines in the food industry with occasional contact with food that cannot be ruled out. The grease complies with USDA H1.

Base Fluid : PAO  
Name : ISO-L-XCGEB2  
Name : KPF2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 PT

### Food Grade Grease

A white, PTFE containing heavy duty food grade grease for lubrication of food machinery. Based on Synthetic PAO. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO  
Name : ISO-L-XEDEB2  
Name : KPFHC2N-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -50 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 2 XHV

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XAEEA2  
Name : KHC2P-10  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1300 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -10 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 20 HVP

### Food Grade Grease

A fully synthetic, PAO based and food grade lubrication grease for high loaded gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalphaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols may be replaced.

Base Fluid : PAO  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +150 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BA 20 LV

### Food Grade Grease

A fully synthetic, PAO based very high dutied lubrication grease for high loaded gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalphaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols

Base Fluid : PAO  
Name : ISO-L-XEDEA00  
Name : G00N-50  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -50 -> +150 °C



may be replaced. This version is very well suitable for high speeds and very low temperatures.

## MOLYDUVAL Soraja BA 20 MV

### Food Grade High Temp Gear Grease

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for bearings beeing lubricated with a lubrication system. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection and water resistance. For reduced friction in rolling contacts it contains microfine PTFE solids, offering even dry lubrication and preventing seizure.

Name : ISO-L-XCGEB00  
Name : GP00S-30  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -30 -> +200 °C  
Dropping Point : no °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja BA 20 T

### Food Grade High Temp Gear Grease

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for bearings beeing lubricated with a lubrication system. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection and water resistance. For reduced friction in rolling contacts it contains microfine PTFE solids, offering even dry lubrication and preventing seizure.

Name : ISO-L-XBGEB00  
Name : GP00K-20  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Temperature Range solid lubrication : 250 °C  
Dropping Point : no °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja BA 30 T

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : KPFHC000U-20  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 890 kg/m³  
Dropping Point : no °C  
solids : PTFE --  
Content PTFE : 5 %

## MOLYDUVAL Soraja BE 1 LV

### Biodegradable Mutli Purpose Grease for Food Industry

A synthetic grease based on ester for the food industry, suitable for slow-running roller and plain bearings, chains and general lubrication points. The synthetic base oils used, the additives and the inorganic thickener comply with the FDA guidelines for use on machines in the food industry with occasional contact of food that cannot be excluded. It therefore meets the requirements of NSF H1.

Base Fluid : Ester  
Name : ISO-L-XDDEB1  
Name : KEP1N-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 950 kg/m³  
Temperature Range : -40 -> +140 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BE 2 HT

### Food Grade Grease

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Ester  
Name : ISO-L-XBGEA2  
Name : KE2S-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 350 mm²/s  
Density 15°C : 1030 kg/m³  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 1

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB1  
Name : KP1K-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 1 T

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : White Oil  
Name : ISO-L-XBCEA1  
Name : KF1K-20  
Consistency Class NLGI : 1  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 2

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB2  
Name : KP2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 2 MV

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Thickener : Bentonit  
Name : ISO-L-XBDEB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 70 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 2 T

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : White Oil  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : -- °C

## MOLYDUVAL Soraja BM 2 Z

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 20

### Food Grade Grease

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for slide bearings and gears. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection and water resistance.

Thickener : Bentone  
Name : ISO-L-XBCEB00  
Name : GP00K-20  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +120 °C

## MOLYDUVAL Soraja BM 25

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB2,5  
Name : KP2,5K-20  
Consistency Class NLGI : 2,5  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BM 3

### Food Grade Grease

A light colour, paraffin oil based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB3  
Name : KP3K-20  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BPM 4

### Food Grade Grease

## MOLYDUVAL Soraja CA 2 LV

### Low Temperature Food Grade Grease

A synthetic oil based food grade calcium grease. It offers extremely good water resistance. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XEBIA2  
Name : KHC2K-70  
Consistency Class NLGI : 2  
Density 15°C : 850 kg/m³  
Temperature Range : -70 -> +100 °C  
Dropping Point : 130 °C  
Wear Protection VKA welding load : 2200 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CGA 20

### Food Grade Lubrication Grease

A light, very water resistant gear oil based on synthetic oil. The special soap ensures a particularly good adhesion of the fat on the tooth flanks, a contained portion of a polyglycol causes particularly low friction. Also contains oxidation additives that prevent the aging of the grease even at relatively high temperatures, as well as anti-corrosion and wear protection additives.

Base Fluid : PAO + PG  
Name : ISO-L-XECFB00  
Name : GHCPGP00K-50  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -50 -> +120 °C  
Dropping Point : 140 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Soraja CHA 0

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthetic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : KHC0K-40  
Name : GHC0K-40  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Viscosity Base Fluid, 100°C : 73 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Dropping Point : 140 °C

This Semi-Fluid Flow Greases are synthetically formulated and have been specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

## MOLYDUVAL Soraja CHA 1 LV

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely

Base Fluid : PAO  
Name : ISO-L-XECHA1

good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for fast running bearings and other lubrication points in food industry, all components conform to the regulations of

Name : KHC1K-60  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -60 -> +120 °C  
Dropping Point : 150 °C  
Wear Protection VKA welding load : 2200 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHA 1 P

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XCCHB1  
Name : KPHC1K-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 140 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHA 2 L

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XCCHA2  
Name : KHC2K-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : >140 °C  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHA 2 LV

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for fast running bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XECHA2  
Name : KHC2K-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 10 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -60 -> +120 °C  
Dropping Point : 150 °C  
Wear Protection VKA welding load : 2200 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHA 2 P

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the

Base Fluid : PAO  
Name : ISO-L-XCCHB2  
Name : KPHC2K-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 140 °C

regulations of USDA H1.

## MOLYDUVAL Soraja CHA 20

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

This Semi-Fluid Flow Greases are synthetically formulated and have been specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Base Fluid : PAO  
Name : ISO-L-XDBFA00  
Name : GHC00K-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Soraja CHA 20 LV

### Food Grade Lubrication Grease

A fully synthetic, PAO based and food grade lubrication grease for high loaded gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalfaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols may be replaced.

Base Fluid : PAO  
Name : ISO-L-XEBIB00  
Name : GPHC00P-50  
Consistency Class NLGI : 00  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +90 °C  
Temperature Range shortly up to : 110 °C

## MOLYDUVAL Soraja CHA 20 X

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

This Semi-Fluid Flow Greases are synthetically formulated and have been

Base Fluid : PAO  
Name : ISO-L-XDBFA00  
Name : GHC00K-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade



specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

## MOLYDUVAL Soraja CHA 20 Y

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

This Semi-Fluid Flow Greases are synthetically formulated and have been specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

## MOLYDUVAL Soraja CHA 30 X

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

This Semi-Fluid Flow Greases are synthetically formulated and have been specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

Corrosion Protection copper : 1-100 Grade

Base Fluid : PAO  
Name : ISO-L-XDBFA00  
Name : GHC00K-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1-100 Grade

Base Fluid : PAO  
Name : ISO-L-XDBFA000  
Name : GHC000K-40  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Soraja CHA 40 X

### Food Grade Lubrication Grease

One of the most modern synthetic oil based food grade greases. It offers extremely good water resistance and strong adherence, also the good temperature resistance of a synthteic PAO base fluid. May be used for bearings and other lubrication points in food industry, all components conform to the regulations of USDA H1.

This Semi-Fluid Flow Greases are synthetically formulated and have been specifically designed for applications where speed and flow requirements dictate the use of lighter consistency lubricants.

This food grade provides maximum oxidation resistance and exceptional shear resistance to maintain the desired light consistencies in important applications, such as Automatic or central lubricating systems, leaky gear drives and gear boxes or long bearing lubricant feed lines.

Base Fluid : PAO  
Name : ISO-L-XDBFA0000  
Name : GHC0000K-40  
Consistency Class NLGI : 0000  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Soraja CHM 0

### Food Grade Lubrication Grease

Base Fluid : Paraffin  
Thickener : Calcium  
Name : ISO-L-XBCIB0  
Name : KP0K-20  
Consistency Class NLGI : 0  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, VVO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHM 0 ZT

### Food Grade Lubrication Grease

White and tasteless lubrication grease. It is made with a white mineral oil and an anhydrous calcium soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product. Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency.

Base Fluid : Paraffin  
Thickener : Calcium  
Name : ISO-L-XBCIB0  
Name : GPF0K-20  
Consistency Class NLGI : 0  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, VVO, distilled water : 0 Grade



## MOLYDUVAL Soraja CHM 1

### Food Grade Grease

Base Fluid : Paraffin  
Thickener : Calcium  
Name : ISO-L-XBCIA1  
Name : K1K-20  
Consistency Class NLGI : 1  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHM 2

### Food Grade Grease

A very water-resistant roller bearing lubricating grease for roller and plain bearings and other lubrication points in the food and pharmaceutical industries. Based on a special, extremely water-resistant calcium soap and a high-purity paraffin oil and contains additives to increase wear and corrosion protection and to improve oxidation stability.

Base Fluid : Paraffin  
Thickener : Calcium  
Name : ISO-L-XBCIA2  
Name : K2K-20  
Consistency Class NLGI : 2  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHM 2 ZT

### Special Grease For Food Industry

White lubrication grease made with a paraffinic oil and a very water resistant anhydrous calcium soap thickener. Contains rust inhibitors protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing. Contains microfine polytetra-fluoroethylen (PTFE) and other white solids for reducing friction, offering dry lubrication and preventing seizure and tribocorrosion.

Base Fluid : paraffine oil  
Thickener : Ca Anhydrous  
Name : ISO-L-XBCIEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CHM 20

### Food Grade Grease

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for bearings beeing lubricated with a lubrication system. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection

Thickener : Ca Anhydrous  
Name : ISO-L-XCCIB00  
Name : GP00K-30  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 150 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C

and water resistance.

Dropping Point : 145 °C

## MOLYDUVAL Soraja CHM 20 T

### Special Grease For Food Industry

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for bearings beeing lubricated with a lubrication system. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection and water resistance. For reduced friction in rolling contacts it contains microfine PTFE solids, offering even dry lubrication and preventing seizure.

Name : ISO-L-XBCIA00  
Name : GF00K-25  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 68 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -25 -> +120 °C  
Temperature Range solid lubrication : 250 °C  
Dropping Point : 145 °C  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja CHM 30

### Food Grade Grease

A white colour, semi fluid lubrication grease for chains and gears in food industry. Suitable also for bearings beeing lubricated with a lubrication system. Based on modern food grade base stocks it is food grade (USDA H1) and may be used in food industry. Very good corrosion protection and water resistance.

Thickener : Ca Anhydrous  
Name : ISO-L-XCCIB000  
Name : GP000K-30  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 150 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Dropping Point : 145 °C

## MOLYDUVAL Soraja CKA 1 HV

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant calcium complex thickener in combination with a modern, synthetic polyalfaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : CaK  
Name : ISO-L-XDGEB1  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 280 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 30 mm<sup>2</sup>/s  
Temperature Range : -40 -> +200 °C  
Dropping Point : > 250 °C  
Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CKA 1 XHV

### High Temp Grease for Food Industry

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant calcium complex thickener in combination with a modern, synthetic polyalfaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : CaK  
Name : ISO-L-XBFIB1  
Name : KPHC1P-20  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Water Resistance 80°C : 1,5 %  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection Copper 24h 100°C : 1 B Note

## **MOLYDUVAL Soraja CKA 2 HV**

### **High Temp Grease for Food Industry**

A temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant calcium complex thickener in combination with a modern, synthetic polyalphaolefine base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : PAO  
Thickener : CaK  
Name : ISO-L-XBFIB2  
Name : KPHC2R-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1200 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Water Resistance 80°C : 1,5 %  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection Copper 24h 100°C : 1 B Note

## **MOLYDUVAL Soraja CKA 20 HV**

### **High Temp Grease for Food Industry**

Virtually odourless and tasteless fully synthetic lubrication flow grease in NLGI 00. It is made with a PAO and an calcium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product. Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resists water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. And because it is shear-stable, it also maintain its consistency when it is severely worked in the gear.

Base Fluid : PAO  
Name : ISO-L-XBFIB00  
Name : GPHC00P-20  
Consistency Class NLGI : 00  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## **MOLYDUVAL Soraja CKA 30 LV**

### **High Temp Grease for Food Industry**

A fully synthetic, PAO based and food grade lubrication grease for high loaded gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalphaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols may be replaced.

Base Fluid : PAO  
Name : ISO-L-XDDFB000  
Name : GPHC000N-40  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 68 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -40 -> +140 °C  
Dropping Point : > 200 °C

## **MOLYDUVAL Soraja CKM 15 LMV**

### **High Temp Grease for Food Industry**

Temperature resistant bearing grease with good wear protection, excellent water resistance and good corrosion protection in combination with food compatibility. Based on a temperature-stable calcium complex thickener and a medium viscosity paraffinic base oil. With a balanced EP additivation, it provides an extreme pressure resistance and is therefore particularly suitable for heavily loaded, slow-running bearings in the food and pharmaceutical industries.

Base Fluid : MWO  
Thickener : CaK  
Name : ISO-L-XBDIB1,5  
Name : KP1,5P-20  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 180 mm²/s  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Copper 24h 100°C : 1 B Note

## **MOLYDUVAL Soraja CSA 1 HV**

### **Heavy Duty Grease for Food Industry**

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high viscosity synthetic base fluid PAO. Its outstanding natural properties are enhanced with carefully selected additives. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium to high speed bearings, sealed for life bearings and in most extended life operations. Developed for applications in Food Industry.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB1  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 280 mm²/s  
Viscosity Base Fluid, 100°C : 30 mm²/s  
Temperature Range : -40 -> +200 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 4000 N  
Corrosion Protection : pass Grade

## **MOLYDUVAL Soraja CSA 1 XHV**

### **Heavy Duty Grease for Food Industry**

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high viscosity synthetic base fluid PAO. Its outstanding natural properties are enhanced with carefully selected additives. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium to high speed bearings, sealed for life bearings and in most extended life operations. Developed for applications in Food Industry.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB1  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 400 mm²/s  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Dropping Point : > 300 °C  
Wear Protection Timken EP test : 27 lbs  
Corrosion Protection : pass Grade

## **MOLYDUVAL Soraja CSA 2 HV**

### **Heavy Duty Grease for Food Industry**

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high viscosity synthetic base fluid PAO. Its outstanding natural properties are enhanced with carefully selected additives. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium to high speed bearings, sealed for

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB2  
Name : KPHC2S-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 400 mm²/s  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Dropping Point : > 300 °C  
Wear Protection Timken EP test : 27 lbs

life bearings and in most extended life operations. Developed for applications in Food Industry.

Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CSA 2 LV

### Special Grease For Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high quality mineral base oil. Its outstanding natural properties are enhanced with carefully selected additives. developed and approved for applications in Food Industry.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDFEB2  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 300 °C  
Dropping Point : 300 °C  
Wear Protection Timken EP test : 27 lbs  
Wear Protection VKA welding load : 500 kg  
Corrosion Protection : pass Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja CSA 2 MV

### Heavy Duty Grease for Food Industry

A top-class special lubricating grease with exceptional properties. Due to a special calcium sulfonate complex thickener, it is very pressure-resistant, long-term stable and water-resistant. It ensures a longer service life than conventional multi-purpose and long-term greases. In addition, it is very temperature-resistant. The good EP properties of the soap thickener ensure emergency running properties. Developed and approved for use in the food industry. Complies with NSF H1.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB2  
Name : KPHCF2S-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Dropping Point : > 300 °C  
Wear Protection Timken EP test : 27 lbs  
Wear Protection VKA welding load : 4000 N  
Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CSA 2 MVN

### Heavy Duty Grease for Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high viscosity synthetic base fluid PAO. Its outstanding natural properties are enhanced with carefully selected additives. It is designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium to high speed bearings, sealed for life bearings and in most extended life operations. Developed for applications in Food Industry.

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDGEB2  
Name : KPHCF2S-40  
Consistency Class NLGI : 2  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 250 °C  
Temperature Range solid lubrication : 1000 °C  
Dropping Point : > 300 °C  
Wear Protection Timken EP test : 27 lbs  
Corrosion Protection : pass Grade

## MOLYDUVAL Soraja CSA 20 T

### Heavy Duty Grease for Food Industry

Soft, highly adhesive fluid grease for the food industry. Due to its semi-liquid consistency, it can be used very well for gear lubrication with the intended splash lubrication, for the

Base Fluid : PAO  
Thickener : CaS  
Name : ISO-L-XDDIB00  
Name : KPFC00P-40

lubrication of bearings via central lubrication systems or for chains. It offers excellent wear protection, very good water resistance and good corrosion protection in connection with the frequently required food compatibility. It contains an effective percentage of white solid lubricants, including PTFE, to reduce friction. Meets FDA purity requirements of 21 CFR 178.3570 for occasional but unintended food contact.

Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 165 mm<sup>2</sup>/s  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja CSM 1 LHV

### Heavy Duty Grease for Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high quality mineral base oil. Its outstanding natural properties are enhanced with carefully selected additives. developed and approved for applications in Food Industry.

Base Fluid : White Oil  
Thickener : CaS  
Name : ISO-L-XCDB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 1020 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja CSM 1 LMV

### Heavy Duty Grease for Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high quality mineral base oil. Its outstanding natural properties are enhanced with carefully selected additives. developed and approved for applications in Food Industry.

Base Fluid : White Oil  
Thickener : CaS  
Name : ISO-L-XBFI1  
Name : KP1R-20  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : 5000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja CSM 15 LHV

### Heavy Duty Grease for Food Industry

A well balanced combination of overbased calcium sulphonate dispersed in a mixture of high quality mineral base oil. Its outstanding natural properties are enhanced with carefully selected additives. developed and approved for applications in Food Industry.

Base Fluid : White Oil, PAO  
Thickener : CaS  
Name : ISO-L-XCDB1,5  
Name : KP1,5N-30  
Consistency Class NLGI : 1,5  
Density 15°C : 1020 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Soraja CSM 2 HV

### Food Processing Facility

A special lubricating grease with exceptional high pressure properties. Due to the special calcium sulfonate complex thickener, it is

Base Fluid : White Oil  
Thickener : CaS  
Name : ISO-L-XCFI2



very pressure-resistant, long-term stable and water-resistant. It guarantees longer service life than conventional multi-purpose and long-life greases and also than most food-grade greases. The good EP properties of the soap thickener offer emergency running properties. Developed and approved for use in the food industry.

## MOLYDUVAL Soraja CSM 2 LMV

### Heavy Duty Grease for Food Industry

A special lubricating grease with exceptional high-pressure properties due to the special calcium sulfonate complex thickener. It is extremely pressure-resistant, wear-resistant, long-term stable and water-resistant. Provides longer service life than conventional general purpose and extended life greases and also than most food grade greases. The good EP properties of the soap thickener also ensure emergency running properties. Developed for applications in the food industry. Conforms to NSF H1.

Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 1020 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0  
Grade

Thickener : CaS  
Name : ISO-L-XCFIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 1050 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : 5000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0  
Grade

## MOLYDUVAL Soraja CSM 20 LMV

### Heavy Duty Grease for Food Industry

A very soft special lubricating grease with exceptional high pressure properties. Due to the special calcium sulfonate complex thickener, it is very pressure-resistant, long-term stable and water-resistant. It guarantees longer service life than conventional multi-purpose and long-life greases, including most food-grade greases. The good EP properties of the soap thickener offer emergency running properties. Developed and approved for use in the food industry.

Base Fluid : White Oil / PAO  
Thickener : CaS  
Name : ISO-L-XCFIB00  
Name : GP00R-30  
Consistency Class NLGI : 00  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : > 300 °C  
Wear Protection VKA welding load : > 7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0  
Grade

## MOLYDUVAL Soraja KD 460

### High Temp Grease for Food Industry

A high temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant PTFE thickener in combination with a modern, synthetic perfluorolakylene base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : FKW  
Name : ISO-L-XCGIA2  
Name : KFK2U-30  
Consistency Class NLGI : 2  
Density 15°C : 1920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +250 °C  
Temperature Range shortly up to : 270 °C  
Dropping Point : no °C  
Evaporation Loss 96h 220°C : 2,3 %  
Wear Protection VKA wear scar : 0,9 mm  
Wear Protection VKA welding load : > 7000 N

## MOLYDUVAL Soraja Q Spray

### White Assembly Paste for Food Industry

A Food Grade paste for lubrication at extreme loads (high pressures, high temperatures). Also used as a running-in, assembly and

Base Fluid : PAO  
Name : ISO-L-XBGE1,5  
Name : MPF1,5-30

multi purpose paste. Reduces friction, wear and seizure, assembly and disassembly goes easier. The solid lubricants protect against wear, running-in defects and offers good antifrictional properties. Mostly used for screws or nuts. Conforms to USDA H1.

## MOLYDUVAL Soraja QAM 1 T

### White Assembly Paste for Food Industry

A Food Grade paste for lubrication at extreme loads (high pressures, high temperatures). Also used as a running-in, assembly and multi purpose paste. Reduces friction, wear and seizure, assembly and disassembly goes easier. The solid lubricants protect against wear, running-in defects and offers good antifrictional properties. Mostly used for screws or nuts. Conforms to USDA H1.

Temperature Range : -30 -> +1160 °C  
Dropping Point : without °C  
Fineness Ø : < 1 µm

Base Fluid : PAO  
Thickener : AIK  
Name : MPF1R-30  
Consistency Class NLGI : 1  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : no °C  
Fineness Ø : < 1 µm

## MOLYDUVAL Soraja QBG 2 Z

### White Assembly Paste for Food Industry

White assembly, running-in and anti-seize paste for the food industry. Reduces friction and wear under extreme loads, high pressures or high temperatures, facilitates assembly and disassembly and prevents corrosion and seizing. Also suitable for screw and bolt connections. The white solid lubricants contained protect against run-in damage and give emergency running properties. Based on polyglycols. The paste is non-toxic and corresponds to USDA H1. It can be used for lubrication in the food processing industry, replacing black assembly pastes or those based on mineral oil.

Base Fluid : PG  
Thickener : Silikat  
Name : MPF2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 360 mm<sup>2</sup>/s  
Density 15°C : 1600 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range solid lubrication : 1200 °C  
Dropping Point : without °C

## MOLYDUVAL Soraja QTA 0

### White Assembly Paste for Food Industry

A Food Grade paste for lubrication at extreme loads (high pressures, high temperatures). Also used as a running-in, assembly and multi purpose paste. Reduces friction, wear and seizure, assembly and disassembly goes easier. The solid lubricants protect against wear, running-in defects and offers good antifrictional properties. Mostly used for screws or nuts. Conforms to USDA H1.

Base Fluid : PAO  
Thickener : anorganic  
Name : MPF0  
Consistency Class NLGI : 0  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -30 -> +165 °C  
Fineness Ø : < 1 µm

## MOLYDUVAL Soraja QTA 0 HV

### White Assembly Paste for Food Industry

A PTFE thickened, high viscosity PAO fluid based grease for sliding surfaces where a combination of good film strength and low breakaway force is needed.

Also useful as sealing grease for valves,

Base Fluid : PAO  
Thickener : PTFE  
Name : ISO-L-XDDIB0  
Name : MPFHC0-40  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : ca. 4000 mm<sup>2</sup>/s  
Density 15°C : 1050 kg/m<sup>3</sup>



seals, and many parts made from plastic or rubber. The solid lubricants PTFE increases lubrication performance. May be used for lubrication of plastics, rubber, and elastomers in metal contacts. Also used in moulding of plastics as a separating agent. Improves also the sliding ability of non-ferrous metal/non-ferrous metal or metal/metal and plastic/plastic contacts.

Temperature Range : -40 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja QTA 1 HV

### White Assembly Paste for Food Industry

A PTFE thickened, high viscosity PAO fluid based grease for sliding surfaces where a combination of good film strength and low breakaway force is needed.

Also useful as sealing grease for valves, seals, and many parts made from plastic or rubber. The solid lubricants PTFE increases lubrication performance. May be used for lubrication of plastics, rubber, and elastomers in metal contacts. Also used in moulding of plastics as a separating agent. Improves also the sliding ability of non-ferrous metal/non-ferrous metal or metal/metal and plastic/plastic contacts.

Base Fluid : PAO  
Thickener : PTFE  
Name : ISO-L-XDDIB1  
Name : MPFHC1-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : ca. 4000 mm<sup>2</sup>/s  
Density 15°C : 1030 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja QTA 2 HV

### Lubrication Paste for Food Industry

A PTFE thickened, high viscosity PAO fluid based grease for sliding surfaces where a combination of good film strength and low breakaway force is needed.

Also useful as sealing grease for valves, seals, and many parts made from plastic or rubber. The solid lubricants PTFE increases lubrication performance. May be used for lubrication of plastics, rubber, and elastomers in metal contacts. Also used in moulding of plastics as a separating agent. Improves also the sliding ability of non-ferrous metal/non-ferrous metal or metal/metal and plastic/plastic contacts.

Base Fluid : PAO  
Thickener : PTFE  
Name : ISO-L-XDDIB2  
Name : MPFHC240  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1500 mm<sup>2</sup>/s  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja SA 0

### Lubrication Grease for Food Industry

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : PAO/SHC  
Name : ISO-L-XCEEB0  
Name : MP0R-30  
Consistency Class NLGI : ca. 0  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja SA 0 THV

### Food Grade Grease

A white colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC/PAO  
Name : ISO-L-XCEEB0  
Name : KPHC0P-30  
Consistency Class NLGI : 0  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 0 THZ

### Food Grade Grease

A white colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC  
Name : ISO-L-XCEEB0  
Name : KLP0R-30  
Consistency Class NLGI : 0  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 1

### Lubrication Grease for Food Industry

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : PAO/SHC  
Name : ISO-L-XCEEB1  
Name : MP1R-30  
Consistency Class NLGI : ca. 1  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja SA 2

### Food Grade Grease

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : PAO/SHC  
Consistency Class NLGI : ca. 2  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja SA 2 HV

### Food Grade Grease

A brightly colored, synthetic special grease with excellent water and steam resistance.

Base Fluid : PAO / SHC  
Name : MHCP1-2R-20

Recommended for lubricating roller chains and as sealing grease for valves. Due to its high base oil viscosity should be used only for slow movements. It is highly pure, and can be used due to its purity and composition for the lubrication in the food industry. Conforms to USDA H1 Directive for use in the food industry.

Consistency Class NLGI : ca. 2  
Viscosity 40°C : 1300 mm²/s  
Density 15°C : 990 kg/m³  
Temperature Range : -10 -> +150 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja SA 2 LV

### Synthetic Food Grade Gear Grease

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties.

Base Fluid : PAO  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja SA 2 THV

### Food Grade Grease

A white colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC  
Name : ISO-L-XCEEB1,5  
Name : KLP1,5R-30  
Consistency Class NLGI : 1-2  
Density 15°C : 980 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 2 THZ

### Food Grade Grease

A white colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC  
Name : ISO-L-XCEEB1,5  
Name : KLP1,5R-30  
Consistency Class NLGI : 1-2  
Density 15°C : 980 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 2 TMV

### Synthetic Grease for Food Industry

A white colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC, PAO  
Name : ISO-L-XCDEB2  
Name : KPHC2R-30  
Consistency Class NLGI : 2  
Density 15°C : 980 kg/m³  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 200 °C

Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 20

### Synthetic Food Grade Gear Grease

A fully synthetic, PAO based high dutied lubrication grease for gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalfaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols may be replaced.

Base Fluid : SHC  
Thickener : Silica  
Name : ISO-L-XBDEB00  
Name : MPHCO0-20  
Consistency Class NLGI : ca. 00  
Density 15°C : 880 kg/m³  
Temperature Range : -20 -> +150 °C

This products is based on a very special soap beeing softer in motion or after walked penetration and going stronger after rest or motionless.

## MOLYDUVAL Soraja SA 3

### Synthetic Grease for Food Industry

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC  
Consistency Class NLGI : ca. 3  
Density 15°C : 980 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SA 30

### Synthetic Food Grade Gear Grease

A fully synthetic, PAO based high dutied lubrication grease for gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalfaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal aggressive polyglycols may be replaced.

Base Fluid : SHC  
Thickener : Silica  
Name : ISO-L-XBDEB000  
Name : MPHCO000N-20  
Consistency Class NLGI : ca. 000  
Density 15°C : 880 kg/m³  
Temperature Range : -20 -> +150 °C

This products is based on a very special soap beeing softer in motion or after walked penetration and going stronger after rest or motionless.

## MOLYDUVAL Soraja SA 30 LV

### Synthetic Food Grade Gear Grease

A fully synthetic, PAO based high dutied lubrication grease for gear boxes, bearings, and chains. Besides a good temperature stability it guarantees excellent wear protection and good lubrication for a long life time. It is suitable for many types of gear boxes including worm gears, many bearings, slideways and sliding surfaces. Based on modern Polyalfaolefines (PAO) it is also food grade and has in this application better lubrication and oxidation properties than greases based on pharmaceutical white oils or hydrocracks. In worm gears and other applications the seal agressive polyglycols may be replaced.

This products is based on a very special soap beeing softer in motion or after walked penetration and going stronger after rest or motionless.

Base Fluid : SHC  
Thickener : Silica  
Name : ISO-L-XBDEB000  
Name : MPH000N-20  
Consistency Class NLGI : ca. 000  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +150 °C

## MOLYDUVAL Soraja SASP 20

### Food Grade Grease

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : SHC  
Name : ISO-L-XDEIB00  
Name : MLP00R-40  
Consistency Class NLGI : 00  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : no °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja SCA 0

### Synthetic Food Grade Gear Grease

A semi-liquid, thixotropic special lubricating grease for gears and guides in the food industry under high loads. It is very water resistant and adhesive and offers extreme protection against wear. Friction is reduced. Due to its special chemical composition, it has good trailing behavior.

Base Fluid : PAO, Ester  
Thickener : Gel + Calcium  
Name : ISO-L-XDDIB0  
Name : GPHCON-40  
Consistency Class NLGI : ca. 0  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C

## MOLYDUVAL Soraja SCA 20

### Synthetic Food Grade Gear Grease

A semi-liquid, thixotropic special lubricating grease for gears and guides in the food industry under high loads. It is very water resistant and adhesive and offers extreme protection against wear. Friction is reduced. Due to its special chemical composition, it has good trailing behavior.

Base Fluid : PAO, Ester  
Thickener : Gel + Calcium  
Name : ISO-L-XDDIB00/000  
Name : GPHC00/000N-40  
Consistency Class NLGI : ca.00  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C

## MOLYDUVAL Soraja SPM 4

### Synthetic Grease for Food Industry

A light colour, fully synthetic, very tacky multi purpose grease with excellent adhesive properties. Caused by its strom tackiness and high base oil viscosity it should only be used for slow motion parts. May be used for lubrication points in food industry.

Base Fluid : PAO/PM  
Name : ISO-L-XBEEB3,5  
Name : MP3,5R-30  
Consistency Class NLGI : 3-4  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Dropping Point : no °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja T 2

### Special Grease for Food Industry

Virtually odourless, colourless, and tasteless lubrication grease. It is made with a white mineral oil and an anhydrous calcium soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : paraffine oil  
Thickener : Ca Anhydrous  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Density 15°C : 980 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Soraja T Spray

### Lubricant for Food Industry

A high performance versatile lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity Index : 130  
Density 40°C : 870 kg/m<sup>3</sup>

fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Temperature Range : -30 -> +160 °C  
Temperature Range solid lubrication : -180 - +260 °C  
Pour point : -40 °C  
Flash Point COC : 250 °C  
Content PTFE : 3 %

## MOLYDUVAL Soraja TF 1 E

### High Temperature Grease for Food Industry

A high temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant PTFE thickener in combination with a modern, synthetic perfluorolakylene base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : FKW  
Name : ISO-L-XCGIA1  
Name : KFK1U-30  
Consistency Class NLGI : 1  
Density 15°C : 1920 kg/m³  
Temperature Range : -30 -> +250 °C  
Temperature Range shortly up to : 270 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja TF 2 E

### Highest Temperature Grease for Food Industry

A high temperature resistant roller bearing grease offering good wear and water resistance, and corrosion protection in combination with food compatibility. It contains a high temperature resistant PTFE thickener in combination with a modern, synthetic perfluorolakylene base fluid. May be used for lubrication points in food industry, because it conforms to the regulations of USDA H1.

Base Fluid : FKW  
Name : ISO-L-XBGIA2  
Name : KFK2U-20  
Consistency Class NLGI : 2  
Density 15°C : 1920 kg/m³  
Temperature Range : -20 -> +250 °C  
Temperature Range shortly up to : 270 °C  
Dropping Point : no °C  
Evaporation Loss 96h 220°C : 2,3 %  
Wear Protection VKA wear scar : 0,9 mm  
Wear Protection VKA welding load : > 7000 N

## MOLYDUVAL Soraja TF 2 EMV

### Low Temp Grease for Food Industry

Grease for plain and rolling bearings in food and pharmaceutical industry at extremely low temperatures. Resistant to many acids, alkalis and solvents, making it suitable for a range of extreme applications in chemical and pharmaceutical processes, such as when aggressive media affect the lubrication point. Food-grade, i.e. meets the purity requirements of the FDA regulation 21 CFR 178.3570 (USD H1) and is suitable for use in lubrication points in which an accidental contact with food can not be excluded.

Base Fluid : FKW  
Name : ISO-L-XGGIA2  
Name : KFK2U-70  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 85 mm²/s  
Viscosity Base Fluid, 100°C : 22 mm²/s  
Density 15°C : 2000 kg/m³  
Temperature Range : -70 -> +200 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja UA 0 L

### High Temp Grease for Food Industry

A very soft, adhesive and high temperature resistant flow grease for the food industry. Due to its semi-fluid consistency, it can be used for gear lubrication with intended grease or splash lubrication as well as for lubricating rolling bearings via central lubrication systems. It offers good wear protection, very good water resistance,

Base Fluid : PAO  
Name : ISO-L-XDEIB0  
Name : GPHC0P-40  
Consistency Class NLGI : 0  
Density 15°C : 870 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : > 220 °C

good corrosion protection and good high temperature stability. It meets the FDA purity requirements of the 21 CFR 178.3570 guideline for occasional accidental contact with food, the so-called H1 guideline.

## MOLYDUVAL Soraja UA 2 L

### High Temp Grease for Food Industry

A very high temperature resistant rolling bearing grease with good wear protection, very good water resistance and good corrosion protection in connection with the food compatibility that is frequently required today. It complies with the USDA H1 guideline for the use of lubricants in the food industry. The ideal combination: an extremely temperature-stable polyurea thickener and a thermally stable, synthetic PAO base oil.

Base Fluid : PAO  
Thickener : Polyurea  
Name : ISO-L-XDEIB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C

## MOLYDUVAL Soraja XCA 20

### High Temperature Chain Grease

A modern, white coloured, adhesive, semi fluid synthetic lubrication grease for chains. Based on modern food grade base stocks (polyalphaolefines) in combination with a proofed thickener and thermostable additives it is very high temperature resistant.

Base Fluid : PAO  
Name : ISO-L-XDBFA00  
Name : GHC00K-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 840 kg/m³  
Temperature Range : -40 -> +120 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 140 °C  
Flow pressure -30°C : 80 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1-100 Grade



For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Rabilub

## Rapidly biodegradable lubricating greases

### MOLYDUVAL Rabilub BEB 1 CT

#### Synthetic Bio-Grease with Solids

A fully synthetic high performance grease with good wear protection built on biodegradable synthetic ester oils. Can be considered as environmentally friendly or environmentally friendly compared to mineral fats. Recommended for gearboxes and gears when grease may enter the soil, sewage system or waters, or the implements may be used in environmentally sensitive areas.

Base Fluid : Ester  
Name : MEPF1G-30  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 185 --  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 1050 kg/m³  
Temperature Range : -30 -> +100 °C  
Biodegradability : > 60 %  
Pour point Base Fluid : -54 °C  
solids : C, PTFE --

### MOLYDUVAL Rabilub BEB 1 LV

#### Synthetic Bio-Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability, good water resistance, and long-term stability

Base Fluid : Ester  
Name : ISO-L-XDCIB1  
Name : KPE1K-40  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 185 --  
Viscosity Base Fluid, 40°C : 48 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -40 -> +130 °C  
Dropping Point : no °C  
Flash Point COC : 244 °C  
Biodegradability : > 90 %  
Pour point Base Fluid : -54 °C

### MOLYDUVAL Rabilub BEB 30

#### Synthetic Bio-Flow-Grease

A synthetic biodegradable high treated lubrication grease for gears at high temperatures. Offers good wear protection and low friction coefficients. Suitable for gears, bearings, slideways and sliding surfaces at high temperature ranges in dry surroundings.

Base Fluid : Ester  
Name : ISO-L-XCDEB000  
Name : MPE000N-30  
Consistency Class NLGI : 000  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +150 °C

### MOLYDUVAL Rabilub BEB 30 XLV

#### Synthetic Bio-Flow-Grease

Base Fluid : Ester  
Name : ISO-L-XCDEB000  
Name : MPE000N-30  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +150 °C

### MOLYDUVAL Rabilub CEB 0 T

#### Synthetic Bio-Grease with Graphite

A soft, biodegradable ester-based grease with PTFE. Is mainly used in sensitive areas, e.g. for in units that work in water hazard zones, for rail vehicles or for general lubrication points in agriculture, forestry and construction. Also suitable for central lubrication systems and gearboxes.

Base Fluid : Ester  
Thickener : LiCa  
Name : ISO-L-XDCHB0  
Name : GPF0K-40  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 300 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -40 -> +120 °C

Dropping Point : 160 °C  
Biodegradability : > 90 %  
Water Resistance Static : 0-40 Grade  
Wear Protection VKA welding load : 3400 N

## MOLYDUVAL Rabilub CEB 05 LV

### Biodegradable High Performance Grease

A synthetic high-performance grease based on biodegradable, synthetic ester oils for the lubrication of open drives and linear actuators as well as systems with slide rails and supports on check platforms. Also suitable for other high load applications where a biodegradable, soft grease is required.

Base Fluid : Ester  
Thickener : Li-Ca  
Name : ISO-L-XCBIB0,5  
Name : KPE0,5G-30  
Consistency Class NLGI : 0,5  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +110 °C  
Dropping Point : > 140 °C  
Biodegradability : > 80 %

## MOLYDUVAL Rabilub CEB 15 LV

### Biodegradable High Performance Grease

A synthetic high-performance grease based on biodegradable, synthetic ester oils for the lubrication of open drives and linear actuators as well as systems with slide rails and supports on check platforms. Also suitable for other high load applications where a biodegradable, soft grease is required.

Base Fluid : Ester  
Thickener : Ca  
Name : ISO-L-XCBIB1,5  
Name : KPE1,5G-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +100 °C  
Dropping Point : > 140 °C  
Biodegradability : > 80 %

## MOLYDUVAL Rabilub CEN 1 HV

### Biodegradable High Performance Grease

A synthetic high performance grease based on biodegradable, synthetic ester oils. Recommended for slow, heavily loaded rolling and sliding bearings if grease could accidentally end up in the ground, in the sewers or in waters or if the implements are used in environmentally sensitive areas.

Base Fluid : Ester  
Thickener : Ca Special  
Name : ISO-L-XCBIB1  
Name : KPE1K-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 680 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : > 140 °C  
Biodegradability : > 80 %

## MOLYDUVAL Rabilub CEN 15 HV

### Biodegradable Gear Grease

Light adhesive grease for gear drives at extreme pressures and normal temperatures. Forms a pressure-resistant adhesive lubricating film. Due to its biodegradable base oils, it can replace conventional gear lubricants in particularly environmentally sensitive areas.

Base Fluid : Ester  
Name : ISO-L-XBCBE1,5  
Name : KPE1,5K-20  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 150 °C  
Biodegradability : > 60 %  
Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub CEN 20

### Native Bio-Flow-Grease with Graphite

A graphited biodegradable flow grease based on synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Name : ISO-L-XBBEB00  
Name : MPFE00E-20  
Consistency Class NLGI : ca. 00  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -20 -> +90 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 30

### Native Bio-Flow-Grease with Graphite

A graphited biodegradable flow grease based on synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Name : ISO-L-XDCEB000  
Name : MPFE000K-40  
Consistency Class NLGI : ca. 000  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -40 -> +120 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 50

## MOLYDUVAL Rabilub LCE 05

### Modern Biodegradable Heavy Duty Lubricant

Base Fluid : Ester  
Name : ISO-L-XDDIB0,5  
Name : KPE0,5N-40  
Consistency Class NLGI : 0-1  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +140 °C  
Dropping Point : > 260 °C  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub LCE 15 F

### Modern Biodegradable Heavy Duty Lubricant

A complex thickened lubricating grease based on biodegradable esters. The grease contains antioxidants, corrosion inhibitors and an optimised mixture of non-metallic solids. EP- and AW- properties are achieved by an integral part of the soap structure. The product offers excellent load carrying capacity, making it suitable for heavily

Base Fluid : Ester  
Name : ISO-L-XCCIB1,5  
Name : OFPE1,5K-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 1190 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : > 260 °C

loaded applications. The grease has superb mechanical stability, good corrosion protection and excellent water resistance. The grease is suitable for extreme applications operating in sensitive environments, typically marine and mining segments. The extreme load carrying capacity and the excellent water resistance make the product a perfect choice for heavily loaded open gears, jack-ups and similar applications.

## MOLYDUVAL Rabilub LCE 20

### Modern Biodegradable Heavy Duty Lubricant

A complex grease based on biodegradable esters. The grease contains antioxidants and corrosion inhibitors. EP and AW properties are achieved through an integral part of the soap structure. The product offers excellent load-bearing capacity and is also suitable for heavily loaded applications. It is suitable for extreme applications in sensitive environments, e.g. in shipbuilding and mining, e.g. for heavy construction machinery or systems. The extreme resilience and excellent water resistance make the product a perfect choice for heavily loaded open gears, jack-ups and similar applications.

Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Base Fluid : Ester  
Name : ISO-L-XDDIB00  
Name : KPE00N-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +140 °C  
Dropping Point : > 260 °C  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub LCE 30

### Modern Biodegradable Heavy Duty Lubricant

Base Fluid : Ester  
Name : ISO-L-XDDIB000  
Name : KPE000N-40  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +140 °C  
Dropping Point : > 260 °C  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub LKEB 15

### Synthetic Bio-High-Temperature-Grease

A synthetic high-temperature grease based on biodegradable, synthetic ester oils. Recommended for rolling and sliding bearings if grease could accidentally end up in the ground, sewage system or waters, or if the implements are used in environmentally sensitive areas. Compared to conventional biolubricants on rapeseed oil or other native oil base, there is no risk of resinification, it has better high and low temperature stability and a longer shelf life.

Base Fluid : Ester  
Thickener : LiK  
Name : ISO-L-XDDEB1,5  
Name : KPE1,5N-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +140 °C  
Dropping Point : 270 °C

## MOLYDUVAL Rabilub LKEB 2

### Synthetic Bio-High-Temperature-Grease

A synthetic high-temperature grease based on biodegradable, synthetic ester oils. Recommended for rolling and sliding bearings if grease could accidentally end up in the ground, sewage system or waters, or if the implements are used in environmentally sensitive areas. Compared to conventional biolubricants on rapeseed oil or other native oil base, there is no risk of resinification, it has better high and low temperature stability and a longer shelf life.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XCFEB2  
Name : KPE2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -30 -> +180 °C  
Dropping Point : 270 °C

## MOLYDUVAL Rabilub BEB 0 CT

### Synthetic Bio-Grease with Solids

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being biodegradable. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases.

Base Fluid : Ester  
Name : MEPF0G-30  
Consistency Class NLGI : 0  
Viscosity Index Base Fluid : 185 --  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 1050 kg/m³  
Temperature Range : -30 -> +100 °C  
Biodegradability : > 60 %  
Pour point Base Fluid : -54 °C  
solids : C, PTFE --

## MOLYDUVAL Rabilub BEB 0 LV

### Synthetic Bio-Flow-Grease

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases.

Base Fluid : Ester  
Name : ISO-L-XDCEB0  
Name : GPE0  
Consistency Class NLGI : 0  
Viscosity Index Base Fluid : 185 --  
Viscosity Base Fluid, 40°C : 48 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +130 °C  
Flash Point COC : 244 °C  
Biodegradability : > 90 %  
Pour point Base Fluid : -54 °C

## MOLYDUVAL Rabilub BEB 1

### Synthetic Bio-Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability, good water resistance, and long-term stability

Base Fluid : Ester  
Name : ISO-L-XDGDB1  
Name : KPE1U-40  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 960 kg/m³  
Temperature Range : -40 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : 290 °C  
Biodegradability : 78 %  
Pour point Base Fluid : -40 °C



## MOLYDUVAL Rabilub BEB 1 C

### Synthetic Bio-Grease with Graphite

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability, good water resistance, and long-term stability

Base Fluid : Ester  
Name : ISO-L-XDBDB1  
Name : KPEF1K-40  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 960 kg/m³  
Temperature Range : -40 -> +120 °C  
Dropping Point : no °C  
Flash Point COC : 290 °C  
Biodegradability : > 90 %  
Pour point Base Fluid : -45 °C

## MOLYDUVAL Rabilub BEB 1 CHV

### Synthetic Bio-Grease with Graphite

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability, good water resistance, and long-term stability

Base Fluid : Ester  
Name : ISO-L-XBBDB1  
Name : KPEF1K-20  
Consistency Class NLGI : 1  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 960 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C  
Flash Point COC : 290 °C  
Biodegradability : > 90 %  
Pour point Base Fluid : -40 °C

## MOLYDUVAL Rabilub BEB 2 LV

### Synthetic Bio-Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability, good water resistance, and long-term stability

Base Fluid : Ester  
Name : ISO-L-XDCIB2  
Name : KPE2K-40  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 185 --  
Viscosity Base Fluid, 40°C : 48 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -40 -> +130 °C  
Dropping Point : no °C  
Flash Point COC : 244 °C  
Biodegradability : > 90 %  
Pour point Base Fluid : -54 °C

## MOLYDUVAL Rabilub BEB 20

### Synthetic Bio-Flow-Grease

Base Fluid : Ester  
Name : ISO-L-XCDEB00  
Name : MPE00N-30  
Consistency Class NLGI : 00  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +150 °C

## MOLYDUVAL Rabilub BEB 20 C

### Synthetic Bio-Grease with Graphite

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being greater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases. It contains purest and finest graphite for reduced friction.

Base Fluid : Ester  
Name : MPFE00E-30  
Consistency Class NLGI : 00  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 1010 kg/m³  
Temperature Range : -30 -> +150 °C  
Flash Point COC : 299 °C  
Biodegradability : > 90 %

## MOLYDUVAL Rabilub CEB 1 M

### Biodegradable High Performance Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability and good water resistance.

Base Fluid : Ester  
Thickener : Spez. Ca  
Name : ISO-L-XCBIB1  
Name : MPEF1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : ca. 140 °C  
Biodegradability : > 90 %

## MOLYDUVAL Rabilub CEB 2

### Biodegradable High Performance Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability and good water resistance.

Base Fluid : Ester  
Thickener : Ca  
Name : ISO-L-XCBIB2  
Name : KPE2G-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +100 °C  
Dropping Point : 130 °C  
Biodegradability : > 90 %

## MOLYDUVAL Rabilub CEB 2 C

### Synthetic Bio-Grease with Graphite

A graphited biodegradable flow grease based on synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Thickener : LiCa  
Name : ISO-L-XCBEB2  
Name : KPFE2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 160 °C  
Biodegradability : > 90 %  
Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub CEB 2 MV

### Synthetic Bio-Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability and good water resistance.

Base Fluid : Ester  
Thickener : Ca  
Name : KPE2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100/150 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -20 -> +100 °C  
Biodegradability : > 60 %

## MOLYDUVAL Rabilub CEN 0 C

### Native Bio-Flow-Grease with Graphite

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases. It contains purest and finest graphite for reduced friction.

Base Fluid : Ester  
Name : ISO-L-XCBEB0  
Name : MPFE0E-30  
Consistency Class NLGI : 0  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +90 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 1

### Biodegradable Lubrication Grease

An ester-based lubricating grease, therefore environmentally friendly and biodegradable. Can be used as a multi-purpose grease for general lubrication points in agriculture, forestry, construction and wherever a biodegradable grease is required. It is also suitable for roller and plain bearing lubrication, especially at loss lubrication points where excess and displaced grease can get into the ground, the sewer system or waterways.

Base Fluid : Ester  
Thickener : Ca Anhydrous  
Name : ISO-L-XCCIB1  
Name : KPE1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 150 °C  
Biodegradability : > 90 %  
Biodegradability : > 80 %  
Water Resistance Static : 0-40 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 1 M

### Biodegradable Lubrication Grease

A biodegradable universal lubrication grease for applications where Biodegradability is recommended.

Base Fluid : Ester  
Thickener : Spez. Ca  
Name : ISO-L-XBBIB1  
Name : MPEF1K-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 600 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : ca. 140 °C  
Biodegradability : > 90 %

## MOLYDUVAL Rabilub CEN 2

### Biodegradable Lubrication Grease

A lubricating grease based on native esters, therefore environmentally friendly and biodegradable. It is a multi-purpose grease for general lubrication points in agriculture, forestry, construction and wherever a biodegradable grease is required. It is also suitable for roller and plain bearing lubrication up to the specified temperatures, especially at loss lubrication points where excess and displaced grease can get into the ground, the sewer system or waterways.

Base Fluid : Ester  
Thickener : Ca Anhydrous  
Name : ISO-L-XBBIA2  
Name : KE2G-20  
Consistency Class NLGI : 2  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +90 °C  
Temperature Range shortly up to : 110 °C  
Dropping Point : > 140 °C  
Dropping Point : 150 °C  
Biodegradability : > 80 %  
Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub CEN 2

### Biodegradable Lubrication Grease

A lubricating grease based on native esters, therefore environmentally friendly and biodegradable. It is a multi-purpose grease for general lubrication points in agriculture, forestry, construction and wherever a biodegradable grease is required. It is also suitable for roller and plain bearing lubrication up to the specified temperatures, especially at loss lubrication points where excess and displaced grease can get into the ground, the sewer system or waterways.

Base Fluid : Ester  
Thickener : Ca Anhydrous  
Name : ISO-L-XBBIA2  
Name : KE2G-20  
Consistency Class NLGI : 2  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +90 °C  
Temperature Range shortly up to : 110 °C  
Dropping Point : > 140 °C  
Dropping Point : 150 °C  
Biodegradability : > 80 %  
Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub CEN 20 C

### Native Bio-Flow-Grease with Graphite

A graphited biodegradable flow grease based on synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Name : ISO-L-XCBEB00  
Name : MPFE00E-30  
Consistency Class NLGI : ca. 00  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +90 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Content graphite : 5 %  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 3

### Biodegradable Lubrication Grease

A biodegradable universal lubrication grease for applications where Biodegradability is recommended.

Base Fluid : Ester  
Name : ISO-L-XBAEA3  
Name : ME3E-10  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 40°C : 36 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +80 °C  
Temperature Range shortly up to : 120 °C  
Dropping Point : 150 °C  
Biodegradability : > 90 %

Water Resistance Static : 0-40 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Rabilub CEN 30 C

### Native Bio-Flow-Grease with Graphite

A graphited biodegradable flow grease based on native and synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Name : ISO-L-XCBEB000  
Name : MPFE000E-30  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +90 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Content graphite : 4,5 %  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub CEN 40 C

### Native Bio-Flow-Grease with Graphite

A graphited biodegradable flow grease based on synthetic esters. Applications are machinery or railway vehicles operating in sensitive areas, for example in water conservation areas. Because of its semifluid consistency it is suitable for automatic lubrication systems. Contains a high percentage of graphite, which is needed to keep metal surfaces apart and thereby reduce wear, for example in sliding motions such as between rail flanges and wheel flanges where it is difficult to form an elastohydrodynamic lubricating film.

Base Fluid : Ester  
Name : ISO-L-XCBEB0000  
Name : MPFE0000E-30  
Consistency Class NLGI : ca. 0000  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +90 °C  
Dropping Point : 175 °C  
Biodegradability : > 90 %  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub Hydrantenfett BIO

### Biodegradable Low Temp Grease

A low-temperature-resistant lubricating grease for lubricating hydrants and for general lubrication for sliding points and bearings under humid ambient conditions and low temperatures. The grease between the hydrant cover and its seat prevents the ingress of water, which could freeze in winter and damage the hydrant and limit its use.

Base Fluid : Ester  
Name : ISO-L-XDCEA2  
Name : ME2K-40  
Consistency Class NLGI : ca. 2  
Density 15°C : 1000 kg/m³  
Temperature Range : -40 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : no °C

## MOLYDUVAL Rabilub LCE 1 F

### Modern Biodegradable Heavy Duty Lubricant

A complex thickened lubricating grease based on biodegradable esters. The grease contains antioxidants, corrosion inhibitors and an optimised mixture of non-metallic solids. EP- and AW- properties are achieved by an integral part of the soap structure. The product offers excellent load carrying

Base Fluid : Ester  
Name : ISO-L-XCBIB1  
Name : KPE1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 700 mm²/s  
Density 15°C : 1200 kg/m³  
Temperature Range : -30 -> +120 °C

capacity, making it suitable for heavily loaded applications. The grease has superb mechanical stability, good corrosion protection and excellent water resistance. The grease is suitable for extreme applications operating in sensitive environments, typically marine and mining segments. The extreme load carrying capacity and the excellent water resistance make the product a perfect choice for heavily loaded open gears, jack-ups and similar applications.

## MOLYDUVAL Rabilub LCE 2 F

### Modern Biodegradable Heavy Duty Lubricant

A complex thickened lubricating grease based on biodegradable esters. The grease contains antioxidants, corrosion inhibitors and an optimised mixture of non-metallic solids. EP- and AW- properties are achieved by an integral part of the soap structure. The product offers excellent load carrying capacity, making it suitable for heavily loaded applications. The grease has superb mechanical stability, good corrosion protection and excellent water resistance. The grease is suitable for extreme applications operating in sensitive environments, typically marine and mining segments. The extreme load carrying capacity and the excellent water resistance make the product a perfect choice for heavily loaded open gears, jack-ups and similar applications.

Dropping Point : > 260 °C  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Base Fluid : Ester  
Name : ISO-L-XCCIB2  
Name : OFPE2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 700 mm²/s  
Density 15°C : 1240 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : > 260 °C  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Rabilub LEB 0

### Biodegradable Lubrication Grease

Flow Grease lubricant based on synthetic, biodegradable ester base. It is used as a transmission fluid in sensitive areas, e.g. For aggregates that work in water hazard zones or locks. In addition, it can be used as a general-purpose grease for general lubrication points in agriculture, forestry and construction where a continuous fat is recommended.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XCCEB0  
Name : GPE0K-30  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 960 kg/m³  
Temperature Range : -30 -> +120 °C  
Biodegradability : > 80 %

## MOLYDUVAL Rabilub LEB 1 C

### Biodegradable Lubrication Grease with Graphite

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XCBEA1  
Name : KE1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 46 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 160 °C  
Biodegradability : > 90 %

Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub LEB 2

### Synthetic Bio-Grease

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It is based on a mix of Lithium and Calcium thickener with synthetic ester base fluid, it provides good penetration and thermal stability and good water resistance.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XCCEB2  
Name : KPE2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +130 °C  
Dropping Point : 170 °C  
Biodegradability : > 60 %

## MOLYDUVAL Rabilub LEB 2 HV

### Synthetic Bio-Grease

A high-performance grease based on biodegradable ester oils. It is recommended for rolling and plain bearings where lubrication grease could unintentionally enter the soil, sewage system or water bodies, or where the work equipment is used in environmentally sensitive areas.

Base Fluid : Ester  
Thickener : Li  
Name : KPE2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220/320 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +130 °C  
Dropping Point : 170 °C  
Biodegradability : > 60 %

## MOLYDUVAL Rabilub LEB 2 T

### Synthetic Bio-Grease with PTFE

A biodegradable lubrication grease based on synthetic esters for applications where bio-degradability is recommended. It may replace conventional EP 2 greases in sensitive surroundings. It provides good penetration, thermal stability and contains microfine polytetra-fluoro-ethylen for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Ester  
Thickener : LiCa  
Name : ISO-L-XCBEB2  
Name : KPFE2K-30  
Consistency Class NLGI : 2  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +120 °C  
Dropping Point : 160 °C  
Biodegradability : > 90 %  
Water Resistance Static : 0-40 Grade

## MOLYDUVAL Rabilub LEB 30

### Synthetic Bio-Grease

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases.

Base Fluid : Ester  
Name : ISO-L-XDCEB000  
Name : GPE000K-40  
Consistency Class NLGI : 000  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +120 °C  
Biodegradability : >80 %

## MOLYDUVAL Rabilub LEB 40

### Synthetic Bio-Grease

Synthetic flow grease with the environmental hazards of oil disposal in mind. It is made from a combination of special synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and gear grease, it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication greases.

Base Fluid : Ester  
Name : ISO-L-XDCEB0000  
Name : GPE0000K-40  
Consistency Class NLGI : 0000  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +120 °C  
Biodegradability : >80 %



For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Long-Life Long Term Greases

## MOLYDUVAL Long-Life CHM 2 HVLF Water Resistant Long Term Grease

A very high-quality, very water-resistant high-pressure grease for the long-term lubrication of rolling and plain bearings under extreme loads. The particularly good water resistance lies in a very special complex soap and the relatively viscous base oil. It is extremely hard-wearing and adhesive and contains organometallic EP additives based on sulfur-phosphorus-molybdenum, which reduce friction and wear. Due to its good water resistance, it is also used for many applications in the vicinity of sea water.

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life CLM 2 LF Water Resistant Long Term Grease

A multipurpose, high performance Calcium-Lithium grease specially formulated for extreme pressure bearing applications operating under high load and low speed.

Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Thickener : LiCa  
Name : ISO-L-XBCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection 80kN 120°C : < 1 mg  
Wear Protection FAG FE8 75rpm 50kN 60 ° C : < 1 mg  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life CM 2 MVZ Water Resistant Long Term Grease

A white, very water-resistant long-term grease for the lubrication of roller and slide bearings. Forms a stable, well-adhering lubricant film to withstand continuous loads, including shock loads and vibrations. It contains additives that can form chemically active intermediate layers with metal surfaces in the area of boundary lubrication, thereby reducing the roughness of the surfaces. It also contains a combination of white solid lubricants to reduce friction and prevent fretting corrosion (tribocorrosion).

Base Fluid : Min  
Thickener : Ca  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 150 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life LKM 20 ZSL High Temperature Gear Flow Grease

A flow grease based on lithium complex soap for the lubrication of bearings and joints via central lubrication systems, even at high performance requirements. It is very low friction, anti-corrosive and wear-resistant, and has good water resistance.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XDDIB00/000  
Name : KP00/000N-40  
Consistency Class NLGI : 00/000  
Density 15°C : 900 kg/m³  
Temperature Range : -40 -> +140 °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Long-Life LM 15 XHV High Performance Grease

A high-quality high-pressure grease for the long-term lubrication of rolling and plain bearings when a stable lubricant film has to be formed in order to withstand high continuous and shock loads as well as

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KP2N-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s

vibrations. The product contains additives which can form chemically active intermediate layers in the area of the boundary lubrication, as a result of which the roughness of the metal surfaces is reduced. It is based on a highly viscous base oil and is extremely walk-resistant and adhesive.

Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2800 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 HVZ

### High Performance Grease

A high-quality high-pressure grease for long-term lubrication of roller and plain bearings when a stable lubricant film has to be formed to withstand high continuous and shock loads and vibrations. The product contains additives that can form chemically active intermediate layers in the area of boundary lubrication, thereby reducing the roughness of the metal surfaces. It also contains a combination of white solid lubricants to reduce friction and prevent fretting corrosion (tribocorrosion). It is based on a highly viscous base oil and is therefore extremely adhesive and water-resistant.

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KPF2N-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : ca. 800 mm<sup>2</sup>/s  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2800 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 3 B

### Long-Life Water Resistant Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : ISO-L-XCCEB3  
Name : KP3N-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 180 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 2400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LMA 15 P

### Heavy Duty Grease

Light colored, semi-synthetic high temperature and pressure grease for the long-term lubrication of rolling and sliding bearings under high loads. Based on a PAO / mineral oil mixture in combination with a special lithium soap as thickener. High-quality additives give the grease wear-reducing properties excellent corrosion protection and long-term stability. The product is walk-resistant and very water-resistant.

Base Fluid : Min / PAO  
Name : ISO-L-XDEEB1,5  
Name : KPHC1,5P-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 270 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 25 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Long-Life LMA 2 P

### Heavy Duty Grease

Light colored, semi-synthetic high temperature and pressure grease for the long-term lubrication of rolling and sliding bearings under high loads. Based on a PAO / mineral oil mixture in combination with a special lithium soap as thickener. High-quality additives give the grease wear-reducing properties excellent corrosion protection and long-term stability. The product is walk-resistant and very water-resistant.

Base Fluid : Min / PAO  
Name : ISO-L-XDEEB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 120 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 14 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 170 °C  
nd value n-d : 1000000  
Dropping Point : > 250 °C  
Oil Separation 18h 40°C : < 1,5 %  
Flow pressure -30°C : < 1000 hPa (mbar)  
Water Resistance Static : 0 Grade  
Wear Protection VKA wear scar : < 0,6 mm  
Wear Protection VKA welding load : 3500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Long-Life LMA 2 Z

### Heavy Duty Grease

Light-colored, semi-synthetic high-temperature and high-pressure grease for long-term lubrication of roller and plain bearings under high loads. Based on a PAO / mineral oil mixture in connection with a special lithium soap as a thickener. High-quality additives give the grease wear-reducing properties, excellent corrosion protection and long-term stability. The product is flex-resistant and very water-resistant. It contains white solid lubricants that can form active protective layers on the surfaces of the friction partners.

Base Fluid : Min / PAO  
Name : ISO-L-XCDEB2  
Name : KPHCF2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 130 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 15 mm<sup>2</sup>/s  
Density 15°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
nd value n-d : 400000

## MOLYDUVAL Long-Life

### Water Resistant Long Term Grease

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Base Fluid : Min  
Name : ISO-L-XCCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

**MOLYDUVAL Long-Life BKM 15****Water Resistant Long Term Grease**

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast. It offers also high resistance to acid and alkaline solutions.

This properties ensure a long useful life and extended lubricating periods, consequently a lower consumption.

High antiwear capacity, excellent adhesion to metal even with vibrations, and resistance to temperatures up to 150°C, make it very suitable in a wide application field !

Base Fluid : Min  
Thickener : BaK  
Name : ISO-L-XBEIB1,5  
Name : KP1,5K-20  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +160 °C  
nd value n-d : 500.000

**MOLYDUVAL Long-Life BKM 2****Water Resistant Long Term Grease**

A heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications. It offers also high resistance to acid and alkaline solutions. High antiwear capacity, excellent adhesion to metal even with vibrations.

Base Fluid : Min  
Thickener : BaK  
Name : ISO-L-XBDIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 170 °C  
nd value n-d : 500.000  
Water Resistance 80°C : < 4,5 %  
Dropping Point : 220 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

**MOLYDUVAL Long-Life BKM 2 XHV****Water Resistant Long Term Grease**

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast. It offers also high resistance to acid and alkaline solutions.

This properties ensure a long useful life and extended lubricating periods, consequently a lower consumption.

High antiwear capacity, excellent adhesion to metal even with vibrations, and resistance to temperatures up to 150°C, make it very suitable in a wide application field !

Base Fluid : Min  
Thickener : BaK  
Name : ISO-L-XADIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : 170 °C  
nd value n-d : 150.000  
Water Resistance 80°C : < 3 %  
Dropping Point : 220 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Oil Separation 168h (7d) 40°C : < 3 %  
Wear Protection VKA welding load : 3500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2 Grade

**MOLYDUVAL Long-Life CHM 1 LV****Water Resistant Long Term Grease**

An extreme pressure waterproofed grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with a special calcium thickener it provides excellent water resistance with good adhesion, structural stability. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Mineral, PAO  
Thickener : CaH  
Name : ISO-L-XCBIB1  
Name : KP1G-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 68 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +100 °C  
Temperature Range shortly up to : +110 °C  
Dropping Point : > 140 °C

**MOLYDUVAL Long-Life CHM 1 Z****White Color Long Term Grease**

A white, PTFE containing heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Contains a combination of synergetic white solid lubricants including microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering additional corrosion protection, dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XCCIB1  
Name : KPF1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

**MOLYDUVAL Long-Life CHM 2 HZ****Water Resistant Long Term Grease**

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Base Fluid : Min  
Name : ISO-L-XCBIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1000 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

**MOLYDUVAL Long-Life CHM 2 LV****MOLYDUVAL Long-Life CHM 2 P****Water Resistant Long Term Grease**

A premium and light extreme pressure waterproofed grease intended for a wide

Base Fluid : Min



variety of applications including bearings. Based on high quality mineral oil combined with a special calcium thickener it provides excellent water resistance with good adhesion, structural stability. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Thickener : CaH  
Name : ISO-L-XCCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 110 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : +130 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Copper 24h 100°C : 1a Note

## MOLYDUVAL Long-Life CHM 2 P

### Water Resistant Long Term Grease

A premium and light extreme pressure waterproofed grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with a special calcium thickener it provides excellent water resistance with good adhesion, structural stability. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : CaH  
Name : ISO-L-XCCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 110 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : +130 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Copper 24h 100°C : 1a Note

## MOLYDUVAL Long-Life CHM 2 PMV

### Water Resistant Long Term Grease

A premium and light extreme pressure waterproofed grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with a special calcium thickener it provides excellent water resistance with good adhesion, structural stability. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : CaH  
Name : ISO-L-XBBIA2  
Name : K2G-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +100 °C  
Temperature Range shortly up to : +120 °C  
Dropping Point : > 140 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Copper 24h 100°C : 1a Note

## MOLYDUVAL Long-Life CHM 2 T

### Special Long Time Grease with PTFE

One of our most produced top greases. A white, PTFE containing heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C

applications at ships and nearby the coast.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

## MOLYDUVAL Long-Life CHM 2 TR

### Long Time Grease with PTFE

One of our most produced top greases. A white, PTFE containing heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

Base Fluid : Min  
Name : ISO-L-XCDIB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life CHM 2 TZ

### White Color Long Term Grease

A high-quality, very water-resistant high-pressure grease for the long-term lubrication of roller and plain bearings under extreme loads and high humidity. The particularly good water resistance is due to a very special complex soap and a highly viscous base oil. The grease is extremely adhesive and contains a high proportion of synergetic white solid lubricants that reduce friction in the mixed friction area and ensure emergency lubrication.

Base Fluid : Min  
Name : ISO-L-XCCIB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life CHM 3 LV

### Water Resistant Long Term Grease

A light-colour calcium soap based grease for lubrication in case of humid or wet surroundings. Only suitable for low loaded bearings.

Base Fluid : Min  
Name : ISO-L-XCAGA3  
Name : M3C-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +60 °C

## MOLYDUVAL Long-Life CLM 1

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure

Base Fluid : Mineral + PAO  
Name : ISO-L-XCEIB1

bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

## MOLYDUVAL Long-Life CLM 1 HV

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high and low temperature conditions. It's manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

Name : KP1P-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life CLM 1 THV

### Water Resistant Long Term Grease with PTFE

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XBCIB1  
Name : KPF1K-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1000 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Oil Separation 18h 40°C : < 3 %  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Long-Life CLM 2 HV

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure

Base Fluid : Min  
Name : ISO-L-XBCIB2

bearing applications operating under high load and low speed.

Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

This grease is especially suitable for medium to slow motion heavily loaded bearings in wet or humid environments.

Name : KP2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1100 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F : pass  
Oil Separation 18h 40°C : < 3 %  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 5500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-3 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Long-Life CLM 2 LV

### Long Term Grease Grease for Paper Machinery

Highly friction-reducing high-pressure grease for heavily pressurized lubrication points, which can only be seldom re-lubricated. Protects against wear and tear, contains anti-oxidation and anti-corrosive additives which ensure a long service life and reliable corrosion protection. Due to its relatively low basic oil viscosity, this lubricating grease calcium lithium grease can also be used at relatively high speeds.

Base Fluid : Mineral  
Name : ISO-L-XBCIB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : > 180 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life CLM 2 MV

### Water Resistant Long Term Grease

A multipurpose, high performance Calcium-Lithium grease specially formulated for extreme pressure bearing applications operating under high load and low speed.

Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Thickener : LiCa  
Name : ISO-L-XBCHB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4000 N

## MOLYDUVAL Long-Life CLM 2 THV

### Water Resistant Long Term Grease with PTFE

Extremely friction-reducing high-pressure grease with PTFE for high-pressure, slow-running lubrication points that can only rarely be relubricated. Provides excellent protection against wear, offers the best water resistance, long service life and reliable protection against corrosion. Due to its high base oil viscosity, it offers a better lubricating effect than comparable greases with a thin base oil for slow relative movements. The relatively high proportion of the solid

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 1000 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass

lubricant PTFE reduces friction in the mixed friction area.

Oil Separation 18h 40°C : < 3 %  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Long-Life CLM 2 ZSA

### Water Resistant Long Term Grease

A multipurpose, high performance Calcium-Lithium grease specially formulated for extreme pressure bearing applications operating under high load and low speed.

Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Thickener : LiCa  
Name : ISO-L-XBCIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life CLM 25

### Water Resistant Long Term Grease

A multipurpose, high performance Calcium-Lithium grease specially formulated for extreme pressure bearing applications operating under high load and low speed.

Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

This grease is especially suitable for medium to slow motion bearings in humid surroundings.

Base Fluid : Min  
Thickener : LiCa  
Name : ISO-L-XBCHB2,5  
Name : KP2,5K-20  
Consistency Class NLGI : 2,5  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Oil Separation 168h (7d) 40°C : < 3 %  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 3200 N  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Long-Life CLM 30 ZSA

### Water Resistant Long Term Grease

Strong friction-reducing high-pressure grease based on calcium-lithium for strongly pressure-applied, slow-running lubricants that can only rarely be lubricated. Protects excellently from wear, contains oxidation and corrosion protection additives that ensure long life and reliable corrosion protection. Has the best water resistance and was developed specifically for applications in which a combination of high load and humidity affects storage.

Base Fluid : Min  
Thickener : LiCa  
Name : ISO-L-XBCIB000  
Name : KP000K-30  
Consistency Class NLGI : 000  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life CM 1

### Water Resistant Long Term Grease

A light-colour calcium soap based grease for lubrication in case of humid or wet sur-roundings.

Base Fluid : Min  
Name : ISO-L-XEBHA1  
Name : K1G-50  
Name : M1G-50

Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -50 -> +105 °C  
Dropping Point : 155 °C

## MOLYDUVAL Long-Life CM 2

### Water Resistant Long Term Grease

A premium and light extreme pressure waterproofed grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with a special calcium thickener it provides excellent water resistance with good adhesion, structural stability. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : CaH  
Name : ISO-L-XCBIB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 250 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : +120 °C  
Dropping Point : > 140 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-3 Grade  
Corrosion Protection Copper 24h 100°C : 1a Note

## MOLYDUVAL Long-Life CM 2 MV

### Water Resistant Long Term Grease

A light-colour calcium soap based grease for lubrication in case of humid or wet sur-roundings.

Base Fluid : Min  
Name : ISO-L-XCAGA2  
Name : KP2  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 90 mm²/s  
Density 15°C : 900 kg/m³  
Dropping Point : 95 °C

## MOLYDUVAL Long-Life CM 4

### Water Resistant Long Term Grease

A light-colour calcium soap based grease for lubrication in case of humid or wet sur-roundings.

Base Fluid : Min  
Consistency Class NLGI : 3-4  
Density 15°C : 900 kg/m³  
Temperature Range : -25 -> +60 °C

## MOLYDUVAL Long-Life HD 2

### Heavy Duty Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : KP2K-30  
Consistency Class NLGI : 2  
Density 15°C : 905 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0 Grade  
Corrosion Protection copper : 1 Grade



## MOLYDUVAL Long-Life L 2

### Heavy Duty Grease

Light colored high pressure grease for the long-term lubrication of rolling and sliding bearings under high loads. Based on high quality mineral oil in combination with lithium soap as thickener. Special additives give the grease wear-reducing properties and excellent corrosion protection. The product is walk and water-resistant. Proven in many industrial applications and in automotive engineering, where highly loaded rolling and sliding bearings, such as cylindrical and tapered roller bearings are also used under axial thrust, e.g. rolling mill bearings, wheel bearings on construction machinery, crusher bearings, cardan shafts and plain bearings.

Base Fluid : Min  
Name : ISO-L-XCCEB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Utility Time 02-A/1500/6000-120 : 150 h  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Long-Life LCM 2 PHV

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : OGP2N-20  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life LCM 2 TOHV

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life LG 1 P

### Heavy Duty Grease

A light colored general purpose lithium soap based grease in conjunction with a polyalkylene glycol base oil. It is suitable for long-term lubrication of roller and plain bearings under high loads and has very low coefficients of friction, even in the mixed friction area.

Base Fluid : PAG  
Name : ISO-L-XDCEB1  
Name : KPPG1K-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 140 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -40 -> +120 °C

## MOLYDUVAL Long-Life LG 2 P

### Heavy Duty Grease

Base Fluid : PAG  
Name : ISO-L-XDCEB2  
Name : KPPG2K-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 140 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -40 -> +130 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Long-Life LKCM 2

### Water Resistant Long Term Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application areas are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

Base Fluid : Mineral + PAO  
Thickener : Li-Complex + Ca  
Name : ISO-L-XCEIB2  
Name : KP2P-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life LKM 30 ZSA

### Long-Term Grease for Lubrication Systems

A premium quality, multi-purpose grease fortified with extreme pressure additives. It is based on high viscosity index mineral oil and a lithium complex soap and contains additives to enhance its performance including antioxidation, anti-wear and anti-corrosion properties. High quality mineral oil provide excellent temperature performance with good structural stability and resistance to water. Offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XBEIB000  
Name : GP000P-30  
Consistency Class NLGI : 000  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

Recommended for a wide range of applications, including gear grease applications and gear couplings where a flow grease of this consistency is



recommended. Also suitable for plain and rolling element bearing lubrication subject to shock loading, linkages and pins.

## MOLYDUVAL Long-Life LM 0 ZSA

### Long-Term Grease for Lubrication Systems

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

Base Fluid : Min  
Thickener : Li  
Name : ISO-L-XCCEB0  
Name : KP0K-30  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : > 160 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA welding load : >2500 N

## MOLYDUVAL Long-Life LM 1

### Multi Purpose Grease

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments.

It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

Base Fluid : Min  
Name : ISO-L-XCCFB1  
Name : KP1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 180 °C  
Flow pressure -30°C : 1400 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-2 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 1 C

### Longterm EP Grease with Graphite

A friction-reducing high pressure grease with solid lubricants for heavy-duty lubrication points. It protects against friction and wear, it still keeps it's smooth structure even in unfavourable working conditions. Oxidation- and corrosion protection additives guarantees long using times and reliable corrosion protection. The solid lubricants provide extra protection against friction and wear and improve EP properties.

Base Fluid : Min  
Name : ISO-L-XCCEB1  
Name : KFP1K-30  
Consistency Class NLGI : 1  
Consistency, Penetration 25°C : 280 - 0,1 mm  
Viscosity Base Fluid, 40°C : 160 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 55 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life LM 1 LF

### Heavy Duty Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : ISO-L-XCCEB1  
Name : KP1K-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life LM 1 P

### Long-Life Water Resistant EP Grease

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments.

It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

Base Fluid : Min  
Name : ISO-L-XCCFB1  
Name : KP1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 180 °C  
Flow pressure -30°C : 1400 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-2 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 1 T

### White Long Time Grease with PTFE

One of our most produced top greases. A white, PTFE containing heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XCCFB1  
Name : KPF1K-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 180 °C  
Flow pressure -30°C : 1400 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-2 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2

### Water Resistant Multi Purpose Grease

A light-colored multipurpose lithium-based grease for long-term lubrication of rolling and plain bearings under normal loads. It is very good walk-resistant and good water-resistant.

Base Fluid : Min  
Name : ISO-L-XCCEA2  
Name : K2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Oxidation resistance 100h 99°C : < 20 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Lubricating Ability 02-SKF-R2F : pass  
Oil Separation 168h (7d) 40°C : < 5 %  
Flow pressure -35°C : < 1400 hPa (mbar)  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,5 mm  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Long-Life LM 2 C

### Heavy Duty Grease with Graphite

A friction-reducing high pressure grease with graphite for heavy-duty lubrication points. It protects against friction and wear, it still keeps it's smooth structure even in unfavourable working conditions. Oxidation- and corrosion protection additives guarantees long using times and reliable corrosion protection.

Base Fluid : Min  
Name : ISO-L-XCCEB2  
Name : KFP2K-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 55 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life LM 2 HV

### High Performance Grease

A high-quality high-pressure grease for the long-term lubrication of rolling and plain bearings when a stable lubricant film has to be formed in order to withstand high continuous and shock loads as well as vibrations. The product contains additives which can form chemically active intermediate layers in the area of the boundary lubrication, as a result of which the roughness of the metal surfaces is reduced. It is based on a highly viscous base oil and is extremely walk-resistant and adhesive.

Base Fluid : Min + Syn  
Name : ISO-L-XBCIB2  
Name : KP2N-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2800 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 HVR

### High Performance Grease

A high-quality high-pressure grease for the long-term lubrication of rolling and plain bearings when a stable lubricant film has to be formed in order to withstand high continuous and shock loads as well as vibrations. The product contains additives which can form chemically active intermediate layers in the area of the boundary lubrication, as a result of which the roughness of the metal surfaces is reduced. It is based on a highly viscous base oil and is extremely walk-resistant and adhesive.

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KP2N-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2800 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 LF

### Heavy Duty Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : KP2K-30  
Consistency Class NLGI : 2  
Density 15°C : 905 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Long-Life LM 2 LV

### Brake Grease

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments.

It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

Base Fluid : Min  
Name : ISO-L-XCCEA2  
Name : K2K-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Long-Life LM 2 LV

### Brake Grease

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating

Base Fluid : Min  
Name : ISO-L-XCCEA2  
Name : K2K-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³

under severe conditions including shock loading and wet environments.

It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

## MOLYDUVAL Long-Life LM 2 N

### Heavy Duty Grease with Boron Nitride

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments. Contains boron nitride for emergency lubrication in the highest temperature range.

Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0 Grade

Base Fluid : Min  
Name : ISO-L-XBCEB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range dry lubrication, solid lubrication : 1400 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 P

### Heavy Duty Grease

Light colored high pressure grease for the long-term lubrication of rolling and sliding bearings under high loads. Based on high quality mineral oil in combination with lithium soap as thickener. Special additives give the grease wear-reducing properties and excellent corrosion protection. The product is walk and water-resistant. Proven in many industrial applications and in automotive engineering, where highly loaded rolling and sliding bearings, such as cylindrical and tapered roller bearings are also used under axial thrust, e.g. rolling mill bearings, wheel bearings on construction machinery, crusher bearings, cardan shafts and plain bearings.

Base Fluid : Min  
Name : ISO-L-XCCEB2  
Name : KP2K-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Utility Time 02-A/1500/6000-120 : 150 h  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 PMV

### Bearing Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

Base Fluid : Min  
Name : ISO-L-XBCEB2  
Name : KP2K-20  
Consistency Class NLGI : 2  
Density 15°C : 960 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life LM 2 SP 12

### 12-Months-Lubricator with Longterm Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

With the automatic lubricator the grease point is supplied via a certain period independently with lubrication grease. Time-consuming relubrication and controlling are not necessary any longer. The lubricator is based on a scientific principle, by a chemical reaction within the device, after which pivoting the release screw is started. Afterwards structures itself inside a reaction, which the pistons forward moved and thus causes the grease pressure.

Base Fluid : Min  
Name : ISO-L-XBCEB2  
Name : KP2K-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Utility Time 02-A/1500/6000-120 : 150 h  
Flow pressure -35°C : 1500 hPa (mbar)  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 SP 6

### 6-Months-Lubricator with Longterm Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

With the automatic lubricator the grease point is supplied via a certain period independently with lubrication grease. Time-consuming relubrication and controlling are not necessary any longer. The lubricator is based on a scientific principle, by a chemical reaction within the device, after which pivoting the release screw is started. Afterwards structures itself inside a reaction, which the pistons forward moved and thus causes the grease pressure.

Base Fluid : Min  
Name : ISO-L-XBCEB2  
Name : KP2K-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +130 °C  
Dropping Point : 190 °C  
Utility Time 02-A/1500/6000-120 : 150 h  
Flow pressure -35°C : 1500 hPa (mbar)  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 T

### Heavy Duty Grease with PTFE

One of our most produced top greases. A white, PTFE containing heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XCCIB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Utility Time 02-A/1500/6000-120 : > 100 h



Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 2 Z

### Lubrication Grease With White Solid Lubricant

A white, solid containing heavy duty grease with good water resistance for long time lubrication of roller and sleeve bearings. Contains a combination of synergetic white solid lubricants including microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering additional corrosion protection, dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XCCEA2  
Name : KF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 120 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Oxidation resistance : < 50 kPa  
Dropping Point : 180 °C  
Flow pressure -30°C : < 800 hPa (mbar)  
Water Resistance Static : 1-80 Grade  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection copper : 2 Grade

## MOLYDUVAL Long-Life LM 20 ZSA

### Heavy Duty Grease

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

Base Fluid : Min  
Thickener : Li  
Name : ISO-L-XDCEB00  
Name : GP00K-40  
Consistency Class NLGI : 00  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : > 160 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA welding load : 2000 N

## MOLYDUVAL Long-Life LM 3 LF

### Heavy Duty Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : ISO-L-XBDEB3  
Name : KP3K-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 180 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 3 P

### Long-Life Water Resistant Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Name : ISO-L-XCCEB3  
Name : KP3N-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 180 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 2400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 3 Z

### White Long Time Grease

White color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments. It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

Base Fluid : Min  
Name : ISO-L-XCDIB3  
Name : KPF3N-30  
Consistency Class NLGI : 3  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life LM 40 ZSA

### Long-Term Grease for Lubrication Systems

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

Base Fluid : Min  
Thickener : Li  
Name : KP0000K-30  
Consistency Class NLGI : 0000  
Viscosity Base Fluid, 40°C : 45 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -50 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : > 160 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA welding load : 2000 N

## MOLYDUVAL Long-Life NM 2

### Bearing Grease

A light color multipurpose heavy duty grease for bearings. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure. No good water resistance !

Base Fluid : Min  
Consistency Class NLGI : ca. 2  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 175 °C  
Water Resistance Static : 3 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0



## MOLYDUVAL Long-Life NM 3

### Bearing Grease

Light-colored adhesive rolling and sliding bearing grease, very stable and adherent.

Grade  
Base Fluid : Min  
Name : ISO-L-XBCAA3  
Name : K3M-20  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : 175 °C  
Water Resistance Static : 3 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Long-Life T 2

### White Long Time Grease with PTFE

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KPF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 800 mm<sup>2</sup>/s  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Long-Life UWA

### Underwater Grease

A black heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings. Produced in a special kind of manufacturing and so it is very long-time resistant and tacky. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast. Contains selected graphite and molybdenum disulfide additives.

Base Fluid : Min  
Name : KF2G  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +110 °C  
Dropping Point : 160 °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Long-Life Z 2 K

### Lubrication Grease With White Solid Lubricant

A white, solid containing heavy duty grease with good water resistance for long time lubrication of roller and sleeve bearings. Contains a combination of synergetic white solid lubricants including microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering additional corrosion protection, dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XCCEA2  
Name : KF2K-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 120 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa

Oxidation resistance : < 50 kPa  
Dropping Point : 180 °C  
Flow pressure -30°C : < 800 hPa (mbar)  
Water Resistance Static : 1-80 Grade  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection copper : 2 Grade

## MOLYDUVAL Long-Life ZSAMB

### Grease for Lubrication Systems

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

Base Fluid : Min  
Thickener : Li  
Name : ISO-L-XECEB00/000  
Name : KP00/000K-50  
Consistency Class NLGI : 00-000  
Viscosity Base Fluid, 40°C : 45 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : > 160 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA welding load : 2000 N

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Aero

## Low temperature Greases for Bearings

### MOLYDUVAL Aero BA 15

#### Synthetic Low Temperature Grease

A soft synthetic low temperature grease manufactured from a synthesized hydrocarbon fluid (PAO) and a non soap bentone thickener for lubrication of small gears, joints and sleeve bearings at low and high temperatures. Frost and water resistant. It is easy to apply and pump at low temperatures.

Base Fluid : PAO  
Thickener : Bentone  
Name : ISO-L-XEEIA1,5  
Name : KHC1,5R-50  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 820 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : no °C

### MOLYDUVAL Aero LA 2 X

#### Synthetic Low Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XECIB2  
Name : KPHC2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

### MOLYDUVAL Aero LE 1

#### Synthetic Low Temperature Grease

A soft, synthetic low temperature grease for very low temperatures. Can be used for long-term lubrication of rolling and plain bearings. Also for-life lubrication is possible. The grease has a high purity, the bearings run therefore very quiet and also make it suitable for applications in precision engineering. Contains a relatively high proportion wear and corrosion protection.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEB1  
Name : KEP1K-60  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -60 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

### MOLYDUVAL Aero LE 15

#### Synthetic Low Temperature Grease

A special synthetic grease for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEA1,5  
Name : KE1,5K-70  
Consistency Class NLGI : 1,5  
Worked Penetration : 315 · 0,1 mm  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Viscosity Base Fluid, 100°C : 3,7 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -70 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 185 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Aero LE 3

### Synthetic Low Temperature Grease

A special synthetic grease for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEA3  
Name : KE3K-60  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -60 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Aero LKA 1 TLT

### Synthetic Low Temperature Grease

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

Base Fluid : PAO  
Name : ISO-L-XEDIB1  
Name : KPFHC1N-60  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade  
Content PTFE : 3,5 %

## MOLYDUVAL Aero LKA 2 TUV

### Synthetic Low Temperature Grease

A modern, synthetic rolling and plain bearing grease for extremely low temperatures. Based on a very low-viscosity synthetic oil, it can be used for long-term lubrication under extreme climatic conditions, but also at very high speeds. Low starting and running torques are characteristic. It contains antioxidants, corrosion inhibitors and EP/AW additives and a UV stabilizer.

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPFHC2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade  
Content PTFE : 3,5 %

## MOLYDUVAL Aero LKEA 2

### Synthetic Low Temperature Grease

A modern, synthetic special grease for the lowest temperatures. It can be used for long-term lubrication of rolling and plain bearings at low temperatures but also at very high

Base Fluid : PAO, Ester  
Name : ISO-L-XEDIB2  
Name : KPEHC2P-70  
Consistency Class NLGI : 2

decompositional speeds and at variable loads. Dynamically light means minimal friction during start-up or run-in. Good oxidation protection offers a long service life, suitable also for life-time lubrication. Good corrosion protection and good elastomer and plastic compatibility.

## MOLYDUVAL Aero LKEA 2 M

### Synthetic Low Temperature Grease with MoS2

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings at low temperatures up to -60°C. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

Viscosity Base Fluid, 40°C : 18 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -70 -> +160 °C  
nd value n-d : 1.000.000  
Dropping Point : > 220 °C  
Water Resistance Static : 0 Grade  
Wear Protection : 2700 h  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPFHC2P-70  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -70 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LM 1 M

### Low Temperature Grease

Base Fluid : Min  
Consistency Class NLGI : 1-2  
Density 15°C : 930 kg/m³  
Temperature Range : -50 -> +120 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F : pass  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero TF 1 LV 60

### Synthetic Low Temperature Grease

Low temperature roller bearing grease based on fluorinated hydrocarbons for the safe lubrication at lowest temperatures. Particularly in extreme temperature ranges this grease may be economically applicable, and thus particularly for rolling and sliding bearings. Apart from its outstanding temperature range it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect. It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they were decomposed. Despite the relatively high

Name : ISO-L-XEGIB1  
Name : KPFK1U-60  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 15-22 mm²/s  
Density 15°C : 1900 kg/m³  
Temperature Range : -60 -> +200 °C  
Dropping Point : no °C  
Flash Point COC : no °C



price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

## MOLYDUVAL Aero TF 15

### Synthetic Low Temperature Grease

A low temperature bearing grease based on fluorinated hydrocarbons for safe lubrication at low temperatures. In addition to its excellent high and low temperature resistance, it is also very resistant to acids, alkalis and solvents, making it suitable for a number of extreme applications in chemical processes, e.g. if aggressive media or radiation act on the lubrication point. Greases of this type are predominantly used when conventional lubricating greases or other synthetic greases no longer have a satisfactory lubricating effect.

Name : ISO-L-XEGIB2  
Name : KPFK2U-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 1900 kg/m³  
Temperature Range : -60 -> +200 °C  
Dropping Point : no °C  
Flash Point COC : no °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Aero BA 2

### Synthetic Low Temperature Grease

A soft synthetic low temperature grease manufactured from a synthesized hydrocarbon fluid (PAO) and a non soap bentone thickener for lubrication of small gears, joints and sleeve bearings at low and high temperatures. Frost and water resistant. It is easy to apply and pump at low temperatures.

Base Fluid : PAO  
Thickener : Bentone  
Name : ISO-L-XEEIA2  
Name : KHC2R-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 820 kg/m³  
Temperature Range : -50 -> +160 °C  
Temperature Range shortly up to : 170 °C  
Dropping Point : no °C

## MOLYDUVAL Aero BA 20

### Synthetic Low Temperature Grease

A soft synthetic low temperature grease manufactured from a synthesized hydrocarbon fluid (PAO) and a non soap bentone thickener for lubrication of small gears, joints and sleeve bearings at low and high temperatures. Frost and water resistant. It is easy to apply and pump at low temperatures.

Base Fluid : PAO  
Name : GP00N-60  
Consistency Class NLGI : ca. 00  
Viscosity Base Fluid, 40°C : 32 mm²/s  
Density 15°C : 860 kg/m³  
Temperature Range : -60 -> +140 °C

## MOLYDUVAL Aero BAE 20

### Synthetic Low Temperature Flow Grease

A synthetic grease with good pressure absorption capacity and high wear protection for the long-term lubrication of fine mechanic machine elements, gearboxes, bearings and sliding surfaces. It combines the advantages of oil and grease lubrication. Characteristic is a very good flow behavior within a wide temperature range.

Base Fluid : Ester + PAO  
Thickener : Gel  
Name : ISO-L-XECEB00  
Name : GP00K-60  
Consistency Class NLGI : ca. 00  
Viscosity Base Fluid, 40°C : 10 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +120 °C  
Pour point : -66 °C

## MOLYDUVAL Aero BE 2 MX

### Synthetic Low Temperature Grease with MoS2

A soft synthetic low temperature grease for lubrication of small gears, joints in instruments and sleeve bearings at low temperatures up to -70°C. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point. It is easy to apply and pump at low temperatures. It contains a high percentage of extreme pressure and corrosion protection additives. Some types of plastics may be attacked caused by low viscosity ester base fluid.

Base Fluid : Ester  
Name : MPFE2K-70  
Consistency Class NLGI : 1-2  
Density 15°C : 1030 kg/m³  
Temperature Range : -70 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : no °C

## MOLYDUVAL Aero BED 2

### Synthetic Low Temperature Grease

A soft synthetic low temperature grease for lubrication of small gears, joints in instruments and sleeve bearings at low temperatures up to -70°C. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point. It is easy to apply and pump at low temperatures. It contains a high percentage of extreme pressure and corrosion protection additives. Some types of plastics may be attacked caused by low viscosity ester base fluid.

Base Fluid : Ester  
Name : ISO-L-XECEB2  
Name : MPE2K-70  
Consistency Class NLGI : ca. 2  
Density 15°C : 910 kg/m³  
Temperature Range : -70 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Dropping Point : no °C

## MOLYDUVAL Aero BED 20

### Synthetic Low Temperature Grease

A low temperature synthetic grease for temperatures up to -70°C. Can be used for the lubrication of small gears in machines, instruments and measuring devices as well as for rolling bearings for immersion lubrication and for similar low-maintenance applications. Contains a synthetic base oil based on ester, an inorganic thickener and additives, which also impart good wear protection to the grease, in addition to oxidation and moisture stability. Plastics can be attacked by the contained thin liquid ester.

Base Fluid : Ester  
Name : ISO-L-XEDEB00  
Name : KPE00N-70  
Consistency Class NLGI : 00  
Density 15°C : 980 kg/m³  
Temperature Range : -70 -> +150 °C  
Temperature Range shortly up to : 150 °C

## MOLYDUVAL Aero BM 1 MX

### Low Temperature Grease

An oxidation-resistant special grease for highly loaded sliding and rolling bearings at low temperatures. It is produced from a high-quality base oil in combination with a combination of molybdenum disulfide and chemically active additives, which results in excellent wear protection and good pressure resistance. In extreme loads and failure of the hydrodynamic lubrication, a dry

Base Fluid : Min  
Thickener : Bentone  
Name : ISO-L-XECEB1  
Name : KP1K-50  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -50 -> +120 °C  
Dropping Point : no °C

lubrication film forms on the metal surface, which ensures wear protection.

## MOLYDUVAL Aero CM 1 B

### Low Temperature Grease

A blue all-round low-temperature grease for the long-term lubrication of rolling and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is frost and water resistant and contains anti-corrosive additives, the special calcium thickener is protected against water and steam.

Base Fluid : Min  
Thickener : Ca  
Name : ISO-L-XEBHA1  
Name : KL1G-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -50 -> +105 °C  
Temperature Range shortly up to : 115 °C  
nd value n-d : 800.000  
Dropping Point : 150 °C

## MOLYDUVAL Aero CM 15

### Low Temperature Grease

An all-round low-temperature grease for the long-term lubrication of rolling and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is frost and water resistant and contains anti-corrosive additives, the special calcium thickener protects against water and steam.

Base Fluid : Min  
Thickener : CaH  
Name : ISO-L-XEBIA1,5  
Name : K1,5G-50  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
nd value n-d : 800.000  
Dropping Point : 150 °C

## MOLYDUVAL Aero CM 15 M

### Low Temperature Grease

A low-temperature grease for the long-term lubrication of highly loaded rolling and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is frost and water resistant and contains anti-corrosive additives, the special calcium thickener protects safely with water and steam. The product contains molybdenum disulfide to improve the pressure resistance, the wear protection and to ensure emergency running characteristics.

Base Fluid : Min  
Thickener : Ca  
Name : ISO-L-XEBHB1,5  
Name : KPF1,5G-50  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
nd value n-d : 800.000  
Dropping Point : 150 °C

## MOLYDUVAL Aero CM 2

### Low Temperature Grease

An all-round low-temperature grease for the long-term lubrication of rolling and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is frost and water resistant and contains anti-corrosive additives, the special calcium thickener protects from water and steam.

Base Fluid : Min  
Thickener : Ca  
Name : ISO-L-XEBHA2  
Name : K2G-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
nd value n-d : 800.000  
Dropping Point : 150 °C

## MOLYDUVAL Aero CM 2 T

### Low Temperature Grease with PTFE

A low-temperature grease for the long-term lubrication of hobbing rolling and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is frost- and water-resistant and contains anti-corrosive additives that protect against water and steam. It also contains a high percentage of PTFE that reduces friction and prevents wear.

Base Fluid : Min  
Thickener : Li  
Name : ISO-L-XEBIB2  
Name : KPF2G-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 9 mm²/s  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
nd value n-d : 500.000  
Dropping Point : 190 °C

## MOLYDUVAL Aero CM 2 W

### Grease for Underwater Lubrication

A lubricant for under water lubrication points. It is proved for lubrication at bearings and gears that have regular contact with water or humidity.

Name : ISO-L-XEBHB2  
Name : KP2G-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -54 -> +95 °C  
Dropping Point : 140 °C

## MOLYDUVAL Aero LA 1 P

### Synthetic Low Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEBIB1  
Name : KPHC1K-50  
Consistency Class NLGI : 1  
Density 15°C : 870 kg/m³  
Temperature Range : -50 -> +120 °C  
Temperature Range shortly up to : 120 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Aero LA 1 PT

### Synthetic Low Temperature Grease with PTFE

A soft synthetic low temperature grease with PTFE for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease.

Base Fluid : PAO  
Name : ISO-L-XEBIB1  
Name : KPFHC1G-50  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Aero LA 1 PTZ

### Synthetic Low Temperature Grease with Solid Lubricants

A soft, synthetic low-temperature grease for rolling and plain bearings, gearing, sliding surfaces. The synergistic combination of white solid lubricants contained offers good corrosion protection and protection against tribocorrosion, they improve the pressure resistance.

Base Fluid : PAO  
Name : ISO-L-XEBIA1  
Name : KFHC1G-50  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Aero LA 2

### Synthetic Low Temperature Grease

A light-colored synthetic multi-purpose grease based on lithium soap in combination with high-quality PAO base oil. For lubrication of small gears in automotive engineering, rolling and plain bearings, as well as guides and door lock mechanisms up to very low temperatures. It offers long service life due to high corrosion protection and resistance to oxidation.

Base Fluid : PAO  
Name : ISO-L-XEDEA2  
Name : KHC2P-60  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -60 -> +150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LA 2 UVI

### Synthetic Low Temperature Grease with UV Indicator

A light-colored synthetic multi-purpose grease based on lithium soap in combination with high-quality PAO base oil. For lubrication of small gears in automotive engineering, rolling and plain bearings, as well as guides and door lock mechanisms up to very low temperatures. It offers long service life due to high corrosion protection and resistance to oxidation.

Base Fluid : PAO  
Name : ISO-L-XEDHB2  
Name : KPHC2N-60  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -60 -> +150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 180 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LE 2 M

### Synthetic Low Temperature Grease

A special synthetic grease added with MoS<sub>2</sub> for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEB2  
Name : KPFE2K-70  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 15 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -70 -> +130 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Aero LE 2 PP

### Synthetic Low Temperature Grease

A special synthetic grease for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEB2  
Name : KPE2K-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 15 mm<sup>2</sup>/s  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -60 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Aero LE 2 TZ

### Synthetic Low Temperature Grease with PTFE

Special synthetic low temperature grease for lubrication of rolling and sleeve bearings at lowest temperatures. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as instrument grease. It contains a special synergetic white solid combination for increasing wear resistance and reducing friction.

Base Fluid : Ester  
Thickener : Li  
Name : ISO-L-XECEB2  
Name : KPFE2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 15 mm<sup>2</sup>/s  
Density 15°C : 1040 kg/m<sup>3</sup>  
Temperature Range : -60 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Dropping Point : 190 °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Aero LKA 1

### Synthetic Low Temperature Grease

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings at low temperatures up to -60°C. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

Base Fluid : PAO  
Name : ISO-L-XEDIB1  
Name : KPH12N-60  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 27 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -60 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LKA 2

### Synthetic Low Temperature Grease

A modern, synthetic roller and plain bearing grease for extremely low temperatures. Built on the basis of a very low-viscosity synthetic oil, it can be used for long-term lubrication in extreme climatic conditions, but also at very high speeds. Low starting and running torques are characteristic. It contains

Base Fluid : PAO  
Name : ISO-L-XECIB2  
Name : KPHC2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -60 -> +140 °C



antioxidants, corrosion inhibitors and EP / AW additives. Due to its good compatibility with elastomers and plastics, it is ideally suited for applications in the automotive industry.

Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LKA 2 HVP

### Synthetic Low Temperature Grease

A fully synthetic low-temperature grease for lubricating rolling and plain bearings even at very high loads. Has a relatively high viscosity PAO base oil and a very strong EP additive. Due to its good elastomer and plastic compatibility, it is ideally suited for applications in the automotive industry.

Base Fluid : PAO  
Name : ISO-L-XDEHB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LKA 2 MX

### Synthetic Low Temperature Grease with MoS2

A modern, synthetic low-temperature grease for long-term lubrication of rolling and plain bearings at low temperatures and high speeds. It is ideal for numerous applications in the aerospace and automotive industries. Offers good elastomer and plastic compatibility due to its PAO base oil and excellent wear and corrosion protection as well as excellent water resistance. It contains a relatively high proportion of molybdenum disulfide to reduce friction and wear.

Base Fluid : PAO/Ester  
Name : ISO-L-XEDIB2  
Name : KPFHC2N-70  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m³  
Temperature Range : -70 -> +140 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LKA 2 PL

### Synthetic Low Temperature Grease

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings at low temperatures up to -60°C. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPHC2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LKA 2 TLT

### Synthetic Low Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPFHC2N-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade  
Content PTFE : 3,5 %

## MOLYDUVAL Aero LKA Spray

### Synthetic Spray for Low Temperatures

A fully synthetic low temperature special grease for lubrication of automotive door lock mechanism and bearings. Frost and water resistant and contains anti-corrosion additives providing additional protection in case of water or damp penetration.

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPHC2N-60  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 40°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LM 1

### Low Temperature Grease

Base Fluid : Min  
Name : ISO-L-XEBIB1  
Name : KP1E-50  
Consistency Class NLGI : 1  
Density 15°C : 930 kg/m³  
Temperature Range : -50 -> +90 °C  
Temperature Range shortly up to : 110 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F : pass  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LM 2

### Low Temperature Grease

A low temperature grease for lubrication of roller and sleeve bearings working at temperatures down to -50°C. It is frost and water resistant and contains anti-corrosion

Base Fluid : Min  
Name : ISO-L-XEBIB2  
Name : KP2K-50  
Consistency Class NLGI : 2



additives providing additional protection in case of water or damp penetration. The grease is easy to apply and pump at low temperatures. Low temperature greases usually contain low viscous base fluids being also suitable for high speed applications.

Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F : pass  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero LM 2 M

### Low Temperature Grease

A low-temperature grease for the long-term lubrication of high-load roller and plain bearings as well as for sliding surfaces in extremely low temperature ranges. It is freeze and water resistant and contains anti-corrosion additives that protect against exposure to water and steam. It also contains a high percentage of MoS<sub>2</sub>, which reduces friction and prevents wear. Low-temperature greases are usually based on particularly thin base oils and are therefore also very suitable for high speeds and speeds.

Base Fluid : Min  
Name : ISO-L-XECIB2  
Name : KPF2K-50  
Consistency Class NLGI : 2  
Density 15°C : 970 kg/m<sup>3</sup>  
Temperature Range : -50 -> +120 °C  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F : pass  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Aero TF 2

### Synthetic Low Temperature Grease

Low temperature roller bearing grease based on fluorinated hydrocarbons for the safe lubrication at lowest temperatures. Particularly in extreme temperature ranges this grease may be economically applicable, and thus particularly for rolling and sliding bearings. Apart from its outstanding temperature range it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect. It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they were decomposed. Despite the relatively high price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

Name : ISO-L-XEGIB2  
Name : KPFK2U-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 160 mm<sup>2</sup>/s  
Density 15°C : 1900 kg/m<sup>3</sup>  
Temperature Range : -60 -> +200 °C  
Dropping Point : no °C  
Flash Point COC : no °C  
Evaporation Loss 22h 204°C : < 0,7 %  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Aero TF 2 HV 65

### Synthetic Low Temperature Grease

Low temperature bearing grease based on fluorinated hydrocarbons for the safe lubrication at lowest temperatures.

Particularly in extreme temperature ranges this grease may be economically applicable, and thus particularly for rolling and sliding

Name : ISO-L-XEGIB2  
Name : KPFK2U-60  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 159 mm<sup>2</sup>/s  
Density 15°C : 1930 kg/m<sup>3</sup>  
Temperature Range : -60 -> +220 °C  
Dropping Point : no °C

bearings. Apart from its outstanding temperature range it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect.

It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they were decomposed or evaporate. This product evaporates extremely slowly when compared with conventional lubricants, giving excellent durability and long life at elevated temperatures.

Despite the relatively high price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

## MOLYDUVAL Aero TF 2 LV 90

### Synthetic Low Temperature Grease

Low temperature roller bearing grease based on fluorinated hydrocarbons for the safe lubrication at lowest temperatures. Particularly in extreme temperature ranges this grease may be economically applicable, and thus particularly for rolling and sliding bearings. Apart from its outstanding temperature range it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect. It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they were decomposed. Despite the relatively high price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

Flash Point COC : no °C  
Evaporation Loss 22h 149°C : < 0,7 %  
Water Resistance Static : 0-90 Grade

Name : ISO-L-XECIA2  
Name : KFK2K-90  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 290 --  
Viscosity Base Fluid, 40°C : 18 mm<sup>2</sup>/s  
Density 15°C : 1880 kg/m<sup>3</sup>  
Temperature Range : -90 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Pour point : < -90 °C  
Dropping Point : no °C  
Flash Point COC : no °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Aero UA 1 X

### Synthetic Low Temperature Grease

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise

Base Fluid : PAO  
Name : ISO-L-XEDEA1  
Name : KHC1N-55  
Consistency Class NLGI : 1  
Temperature Range : -55 -> +150 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : 200 °C

in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

## MOLYDUVAL Aero UA 15 X

### Synthetic Low Temperature Grease

Synthetic multi purpose lubricating grease with a particularly low noise level. For ball bearings with economical long-term or lifetime lubrication.

Base Fluid : PAO  
Name : KPHC1,5P-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 68 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Dropping Point : 240 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Aero UA 2 X

### Synthetic Low Temperature Grease

A modern synthetic low temperature grease for lubrication of rolling and sleeve bearings at low temperatures. It is frost-resistant and contains anti-corrosion additives which provide additional rust protection in case of water or damp may penetrate the lubrication point. It is easy to apply and pump at low temperatures. It is free from particles which can cause noise in the bearings, thus the bearings run more easy and quietly, making it suitable as an instrument grease.

Base Fluid : PAO  
Thickener : Urea  
Name : ISO-L-XEFEA2  
Name : KHC2R-50  
Consistency Class NLGI : 2  
Temperature Range : -50 -> +180 °C  
Dropping Point : > 260 °C  
Oil Separation 22h 100°C : < 0,5 %  
Wear Protection VKA wear scar : < 0,5 mm  
Wear Protection VKA welding load : 2700 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1b Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.  
All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Pegasus PAO Based High Temperature Greases

## MOLYDUVAL Pegasus AKA 1 ZHV Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Thickener : AIK  
Name : ISO-L-XDEIB1  
Name : KPHC1P-40  
Consistency Class NLGI : 1  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus BA 1 P Synthetic High Temperature Grease

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalphaolefines (PAO) well suited even for a wide range of plastic lubrication.

Base Fluid : PAO  
Name : ISO-L-XBGEA1  
Name : KHC1S-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus UA 0 TLV High Temperature Grease

A high temperature grease for bearings at highest temperatures. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Thickener : PU  
Name : ISO-L-XEGEB0  
Name : KPFHC0S-50  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 40 mm<sup>2</sup>/s  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UA 15 High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film

Base Fluid : PAO  
Name : ISO-L-XEGIB1,5  
Name : KPHC21,5-50  
Consistency Class NLGI : 1-2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## MOLYDUVAL Pegasus UA 2 HZ

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XDFIB2  
Name : KPHC2S-40  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus VA 2 XQ

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus AKA 1 LV

### High Temperature Grease

A special synthetic grease for lubrication of

Base Fluid : PAO

fast running rolling and sliding bearings. Based on a special low viscosity, synthetic base fluid, it is preferred for high speed bearings. It contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point and a special wear reducing component. It is easy to apply and pump, it is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as an instrument grease.

Thickener : Aik  
Name : KPHC1R-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -50 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Flash Point PMCC, base oil : 246 °C  
Pour point Base Fluid : -57 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N

## MOLYDUVAL Pegasus AKA 2 LV

### Synthetic High Temperature Grease

A special synthetic grease for lubrication of fast running rolling and sliding bearings. Based on a special low viscosity, synthetic base fluid, it is preferred for high speed bearings. It contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point and a special wear reducing component. It is easy to apply and pump, it is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as an instrument grease.

Base Fluid : PAO  
Thickener : Aik  
Name : ISO-L-XDFIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 105 mm<sup>2</sup>/s  
Density 15°C : 850 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Flash Point PMCC, base oil : 246 °C  
Dropping Point : 260 °C  
Pour point Base Fluid : -57 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3150 N  
Wear Protection VKA welding load : 315 N  
Corrosion Protection : 1 Grade

## MOLYDUVAL Pegasus AKA 2 M

### High Temperature Grease with MoS2

A synthetic high temperature grease for long-term lubrication of bearings and gears. Very good water resistance and good corrosion protection - may be used in humid or vapor environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Best wear protection and lowest friction is ensured by added purified microfine MoS<sub>2</sub>. This greases is based on an aluminum-complex-thickener in combination with the synthetic PAO (Polyalphaolefines), very modern base fluids for the lubricant industry.

Base Fluid : PAO  
Name : KPFHC2R-40 und KPFH  
Consistency Class NLGI : 2  
Worked Penetration : 265-295 · 0,1 mm  
Density 15°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -40 -> +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus AKA 2 ZHV

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment. The good oxidation resistance and the use of thermic

Base Fluid : PAO  
Thickener : Aik  
Name : ISO-L-XDEIB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>



stable PAO base fluids withstand short temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus BA 2 M

### Synthetic High Temperature Grease

A synthetic high temperature grease with MoS<sub>2</sub> and heavy duty extreme pressure addition, especially used for heavy dutied, hot lubrication problems. It is resistant against hot and cold water, against hot steam, acids and solvents. Due to the fact that it is extremely resistant to ageing it is especially fitted for those lubricating points which are accessible with much difficulties and which can therefore be oiled very seldom. No getting dirty of the goods by dropping greases.

Base Fluid : PAO  
Name : ISO-L-XBGEB2  
Name : KPFHC1.5S-20  
Consistency Class NLGI : 1-2  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range in short-term relubrication : +230 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 P

### Synthetic High Temperature Grease

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalfaolefines (PAO) well suited even for a wide range of plastic lubrication.

Base Fluid : PAO  
Name : ISO-L-XBGEA2  
Name : KHC2S-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 PLV

### Synthetic High Temperature Grease

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalfaolefines (PAO) well suited even for a wide range of plastic lubrication.

Base Fluid : PAO  
Name : ISO-L-XDFEB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 ZT

### Synthetic High Temperature Grease

A white colored high temperature grease with solids and heavy duty extreme pressure additives, especially used for heavy dutied, hot lubrication problems. It is relative good resistant against hot and cold water, against hot steam, acids and solvents.

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFHC2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C

solids : PTFE --

## MOLYDUVAL Pegasus BA 3 P

### Synthetic High Temperature Grease

A light colour low temperature grease for normal loaded bearings. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable ofor very low temperatures. It is very soft and therefore suitable for central lubrication system or bearings with dip lubrication.

Base Fluid : Syn  
Name : KPHC3R-30  
Consistency Class NLGI : 3  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -30 -> +220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus LKA 1

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDFAA1  
Name : KHC1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 1 HV

## MOLYDUVAL Pegasus LKA 1 HVX

### Synthetic High Temperature Grease

A lithium complex thickened lubricating grease based on a high viscous synthetic oil. The grease contains antioxidants, corrosion inhibitors and EP/AW additives. The lithium complex soap, together with the synthetic base oil, makes the product suitable for applications at elevated temperatures, heavily loaded bearings and slow moving applications. The complex soap structure also gives the product a high degree of mechanical stability. This enhances the performance and prolongs relubrication intervals. The specially developed additive package gives the grease a very high load carrying capacity and excellent wear protection.

Base Fluid : PAO  
Name : ISO-L-XCDEB1  
Name : KPHC1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1500 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 140 mm<sup>2</sup>/s  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 270 °C  
Oil Separation 168h (7d) 40°C : 3 %  
Water Resistance Static : 0-90 Grade  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,8 mm  
Corrosion Protection Emcor, WWO, distilled water : 0-1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

It is a modern high performance synthetic product suitable for both industrial and automotive applications. The product's properties make it the primary choice for bearings operating at extremely low speeds, under heavy loads and at high temperatures.

## MOLYDUVAL Pegasus LKA 1 PLV

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +160°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 180°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDDHB1  
Name : KPH12N-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 200 °C  
nd value n-d : 600.000  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 1 PMV

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XEDHB1  
Name : KHCP1N-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -50 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 1 PT

### Synthetic High Temperature Grease with PTFE

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to very high temperatures. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO  
Name : ISO-L-XDFEB1  
Name : KPFHC1R-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 68 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 15

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with

Base Fluid : PAO  
Name : ISO-L-XDFAB1,5

high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more

## MOLYDUVAL Pegasus LKA 2

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Name : KPHC1,5R-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

Base Fluid : PAO  
Thickener : LiK  
Name : ISO-L-XDFAA2  
Name : KHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 LF

### Synthetic High Temperature Grease

A brightly colored, synthetic fat broadband PAObased for long-term lubrication at high temperatures. It has excellent water resistance and good corrosion protection, can therefore also be used in very humid environments at very high temperatures. The product contains special additives (friction modifiers), which reduce friction and reduce the breakaway torque of ball joints. The good oxidation resistance and the use of thermostable base oils allow short-term temperature peaks above 200 ° C. Greases based PAO are very good sealing and plastic compatible. This grease can be used in many areas to replace mineral greases.

Base Fluid : PAO  
Thickener : Li  
Name : ISO-L-XDFAA2  
Name : KHC2R-30  
Consistency Class NLGI : 2  
Temperature Range : -40 -> +180 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 M

### Synt High Temperature Grease with MoS2

A synthetic high temperature grease intended for use in plain and rolling element bearings operating at slow speeds, under heavy loads and high temperatures. Very good water resistance and good corrosion protection - may be used in humid or vapor environment. Best wear protection and lowest friction is ensured by added purified microfine MoS2. This greases is based on a lithium-complex-thickener.

Base Fluid : PAO  
Name : ISO-L-XDFEB2  
Name : KPFHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Dropping Point : 280 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 MLV

### Synt High Temperature Grease with MoS2

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality synthetic PAO base oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. The synthetic base fluid offers stable high temperature properties.

Base Fluid : PAO  
Name : ISO-L-XDDHB2  
Name : KPFHC2N-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 950 kg/m³  
Temperature Range : -40 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3900 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 b Grade

## MOLYDUVAL Pegasus LKA 2 PLV

### Synthetic High Temperature Grease

A light-colored, synthetic all-round grease based on polyalphaolefin (PAO) for long-term lubrication at medium to high temperatures. Has very good water resistance and good corrosion protection, so it can also be used in extremely humid environments at very high temperatures. The high temperature resistance is guaranteed by good oxidation additives and the use of thermally stable base oils. Lubricating greases based on PAO are very compatible with seals and plastics. This lubricating grease can replace mineral lubricating greases in many areas and is used in many areas of the automotive industry, not least because of its good low temperature resistance.

Base Fluid : PAO  
Name : ISO-L-XDDIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 220 °C  
nd value n-d : 600.000  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 2 PMV

### Synthetic High Temperature Grease

Light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to very high temperatures. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short highest temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDEIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : 260 °C  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3400 N  
Corrosion Protection Emcor, WWO, distilled water : 0-1 Grade  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Pegasus LKA 2 PP

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XCFHB2  
Name : KPHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 PTZ

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XCEHB2  
Name : KPFHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 R

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDFAA2  
Name : KHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 T

### Synt High Temperature Grease with PTFE

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDFAB2  
Name : KPFHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0



Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Grade

## MOLYDUVAL Pegasus LKA 2 Z

### Synthetic High Temperature Grease

A white colored synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Name : ISO-L-XDFAA2  
Name : KFHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKE 1

Base Fluid : Ester  
Name : ISO-L-XCFEB1  
Name : KPE1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 40 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKMA 2 T

### Long Term Grease with PTFE

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO+Min  
Thickener : LiK  
Name : ISO-L-XCFIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 500-600 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus UA 1

### Synthetic High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1

innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## MOLYDUVAL Pegasus UA 1 LF

### Synthetic High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 260 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 1 M

### Synthetic High Temperature Grease with MoS2

A high temperature grease for bearings at highest temperatures and high pressures. It reduces friction and wear because of a high percentage of purest molybdenum disulphide (MoS2). This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in

Base Fluid : PAO  
Name : ISO-L-XCGIB1  
Name : KPFHC1S-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note



pipng. Oxidation inhibitors ensure long life in storage and in use.

## MOLYDUVAL Pegasus UA 1 N

### Synthetic High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UA 2

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 C

### Synthetic High Temperature Grease with Grafit

A high temperature grease for bearings at temperatures up to 230°C and high pressures. It reduces friction and wear because of a high percentage of purest graphite. This solid lubricants offers lubrication at temperatures exceeding 230°

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPF2S-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 900 kg/m³

C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication un-der a wide range of operating conditions. Pumpability is ex-cellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

## MOLYDUVAL Pegasus UA 2 HV

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Temperature Range solid lubrication : 450 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 00 Grade

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 LV

### High Temperature Grease

A high temperature grease for bearings at highest temperatures. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Syn  
Name : ISO-L-XEFEB2  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UA 2 M

### Synthetic High Temperature Grease with MoS2

A high temperature grease for bearings at verhy high temperatures and high pressures. It reduces friction and wear because of a

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPFHC2S-50

high percentage of purest molybdenum disulphide (MoS<sub>2</sub>). This solid lubricant offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 T

### Synthetic High Temperature Grease with PTFE

A high temperature grease for bearings at temperatures up to 230°C. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XCGIB2  
Name : KPEF2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm<sup>2</sup>/s  
Density 15°C : 970 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Pegasus

## Ester Based High-Temperature Greases

### MOLYDUVAL Pegasus UE 1 XHV

#### High Temperature Grease

A synthetic high-temperature grease for the lubrication of very strongly temperature-loaded rolling and plain bearings. The grease protects against friction and wear, it retains its soft structure even at very high temperatures, additives against oxidation ensure long life, other additives provide reliable corrosion protection. Included wear protection additives form a thermally stable film on the metal surface, which causes a smoothing of the roughness peaks in the micro range at high temperatures. This reduces the friction and improves the hydrodynamics.

Base Fluid : Ester  
Name : ISO-L-XCGIB1  
Name : KPE1S-30  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Copper 24h 100°C : 1b Note

### MOLYDUVAL Pegasus UE 15 MV

#### High Temperature Grease

A synthetic high-temperature grease for the lubrication of very strongly temperature-loaded rolling and plain bearings. The grease protects against friction and wear, it retains its soft structure even at very high temperatures, additives against oxidation ensure long life, other additives provide reliable corrosion protection. Included wear protection additives form a thermally stable film on the metal surface, which causes a smoothing of the roughness peaks in the micro range at high temperatures. This reduces the friction and improves the

Base Fluid : Ester  
Name : ISO-L-XCGIB1,5  
Name : KPE1,5S-30  
Consistency Class NLGI : 1-2  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Copper 24h 100°C : 1b Note

hydrodynamics.

### MOLYDUVAL Pegasus UE 2 LV

#### Synthetic Allround Grease

A synthetic broadband grease for the lubrication of roller and plain bearings in many applications. The grease provides excellent protection against friction and wear, it retains its soft structure even at high temperatures, and even when exceeded it forms almost no solid or hard deposits. Additives against oxidation ensure a long service life, other additives offer reliable protection against corrosion. Contained anti-wear additives form a thermally stable film on the metal surface, which smooths the roughness peaks in the micro range at high temperatures. This reduces friction and improves hydrodynamics.

Base Fluid : Ester  
Thickener : Polyurea  
Name : ISO-L-XDFEB2  
Name : KEP2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 70 mm<sup>2</sup>/s  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

### MOLYDUVAL Pegasus UEF 15

#### Synthetic High Temperature Hybrid Grease

A fully synthetic high-temperature bearing grease based on fluorinated hydrocarbons for lubrication at very high temperatures. It is particularly suitable for slow-running roller and plain bearings in baking and industrial ovens or on calenders. In addition to its excellent temperature resistance, it is also very resistant to acids, alkalis and solvents, making it suitable for a number of extreme applications in chemical processes, e.g.

Base Fluid : FHC, Ester  
Name : ISO-L-XDGG1,5  
Name : KEFK1,5U-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 150 mm<sup>2</sup>/s  
Density 15°C : 1300 kg/m<sup>3</sup>  
Temperature Range : -40 -> +200 °C  
Dropping Point : without °C

when aggressive media or jets affect the lubrication point. Greases of this type are mainly used when conventional lubricating greases or other synthetic greases no longer have a satisfactory lubricating effect because they decompose or are being decomposed. Despite the relatively high price of such greases, their use can then be economical in many areas, either because the lubrication intervals can be significantly increased, in some cases even lifetime lubrication is achieved, or because friction reduction is only possible through lubrication.

## MOLYDUVAL Pegasus BEG 2 LV

### Synthetic High Temperature Grease

A synthetic high-temperature grease for the lubrication of temperature-loaded rolling and plain bearings at very high temperatures. Protects against friction and wear, additives against oxidation ensure long life, other additives provide reliable corrosion protection. Included wear protection additives form a thermally stable film on the metal surface, which causes a smoothing of the roughness peaks in the micro range at high temperatures. This reduces the friction and improves the hydrodynamics.

Base Fluid : Polyol Ester  
Name : ISO-L-XBGEB2  
Name : KLPE2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 1030 kg/m³  
Temperature Range : -20 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : > 300 °C  
Pour point Base Fluid : -24 °C

## MOLYDUVAL Pegasus BEP 1 LV

### Synthetic High Temperature Grease

Base Fluid : Polyol Ester  
Name : ISO-L-XDGEB1  
Name : KPE1U-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 68/100 mm²/s  
Density 15°C : 1030 kg/m³  
Temperature Range : -40 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : > 300 °C  
Pour point Base Fluid : -40 °C

## MOLYDUVAL Pegasus BEP 1 MV

### Synthetic High Temperature Grease

## MOLYDUVAL Pegasus BEP 2 HV

### Synthetic High Temperature Grease

Base Fluid : Polyol Ester  
Name : ISO-L-XDGEB2  
Name : KLPE2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 1020 kg/m³  
Temperature Range : -40 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : > 300 °C  
Pour point Base Fluid : -40 °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Pegasus BEP 2 LV

### Synthetic High Temperature Grease

Synthetic high-temperature grease for lubricating slow-running roller and plain bearings subject to high temperatures. Protects against friction and wear and provides protection against corrosion.

Base Fluid : Polyol Ester  
Name : ISO-L-XDFEB2  
Name : KLPE2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 68/100 mm²/s  
Density 15°C : 1030 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 230 °C  
Dropping Point : no °C  
Flash Point COC : > 300 °C  
Pour point Base Fluid : -40 °C

## MOLYDUVAL Pegasus BEP 2 MHV

### Synthetic High Temperature Grease

Base Fluid : Polyol Ester  
Name : ISO-L-XDGEB2  
Name : KPEF2U-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 1020 kg/m³  
Temperature Range : -40 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : > 300 °C

## MOLYDUVAL Pegasus BEPP 2

### Synthetic High Temperature Grease

Base Fluid : Polyol Ester  
Name : ISO-L-XBGEB2  
Name : KPE2U-20  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 140 --  
Density 15°C : 1000 kg/m³  
Temperature Range : -20 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : 300 °C  
Pour point Base Fluid : -39 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus BEPP 2 T

### Synthetic High Temperature Grease

A high temperature grease for seals and surfaces based on polyolesters. Reduces friction and wear. Special additives form a grease with good oxidation resistance and good corrosion protection for long-life. Offers adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Polyol Ester  
Name : ISO-L-XCGEB2  
Name : KPFE2U-30  
Consistency Class NLGI : 2  
Viscosity Index Base Fluid : 140 --  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 1000 kg/m³  
Temperature Range : -30 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : 300 °C  
Pour point Base Fluid : -39 °C



Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus LKE 2

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature polyol ester based grease for the long-term lubrication at high temperatures. Good water resistance and good corrosion protection. The good oxidation resistance and the use of thermic stable ester base fluids withstand short very high temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : Ester  
Thickener : LiK  
Name : ISO-L-XCFIA2  
Name : KE2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 240 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : > 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Oil Separation 168h (7d) 40°C : 2 %  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 40 lbs  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Pegasus LKE 2

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature polyol ester based grease for the long-term lubrication at high temperatures. Good water resistance and good corrosion protection. The good oxidation resistance and the use of thermic stable ester base fluids withstand short very high temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : Ester  
Thickener : LiK  
Name : ISO-L-XCFIA2  
Name : KE2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 240 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : > 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Oil Separation 168h (7d) 40°C : 2 %  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 40 lbs  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Pegasus LKE 2 P

### Synthetic High Temperature Grease

A synthetic ester based high temperature grease for lubrication of roller bearings. This grease is based on a very special and temperature resistant polyol ester. Anti-oxidants offering good oxidation stability, even at highest temperatures. Short very high temperature peaks are allowed. In case of overheating these esters form less residues than other base fluids like PAO or mineral

Base Fluid : Ester  
Thickener : LiK  
Name : ISO-L-XCFIB2  
Name : KPE2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 240 °C

oils. This makes this grease also suitable for overheating.

## MOLYDUVAL Pegasus LKE 2 T

### Synthetic High Temperature Grease

A synthetic ester based high temperature grease for lubrication of roller bearings. This grease is based on a very special and temperature resistant polyol ester. Anti-oxidants offering good oxidation stability, even at highest temperatures. Short very high temperature peaks are allowed. In case of overheating these esters form less residues than other base fluids like PAO or mineral oils. This makes this grease also suitable for overheating.

Dropping Point : > 260 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Evaporation Loss 100°C : 0,4 %  
Flow pressure -30°C : < 1400 hPa (mbar)  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

Base Fluid : PAO  
Name : ISO-L-XCFEB2  
Name : KPFE2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 240 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 40 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus SEP 2

### Synthetic High Temperature Grease

A high temperature grease for bearings and surfaces. Reduces friction and wear. Special additives form a grease with good oxidation resistance and good corrosion protection for long-life. Offers adhesive properties.

Base Fluid : Polyol Ester  
Consistency Class NLGI : ca. 2-3  
Viscosity Index Base Fluid : 150 --  
Viscosity Base Fluid, 100°C : 68 mm²/s  
Density 15°C : 1010 kg/m³  
Temperature Range : -40 -> +230 °C  
Dropping Point : no °C  
Flash Point COC : 270 °C  
Pour point Base Fluid : -48 °C

## MOLYDUVAL Pegasus UE 1

### High Temperature Grease

A high temperature grease for bearings. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Ester  
Name : ISO-L-XCGEB1  
Name : KPE1S-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UE 2

### High Temperature Grease

A synthetic high-temperature grease for the lubrication of very strongly temperature-

Base Fluid : Ester  
Name : ISO-L-XCGIB2

loaded rolling and plain bearings. The grease protects against friction and wear, it retains its soft structure even at very high temperatures, additives against oxidation ensure long life, other additives provide reliable corrosion protection. Included wear protection additives form a thermally stable film on the metal surface, which causes a smoothing of the roughness peaks in the micro range at high temperatures. This reduces the friction and improves the hydrodynamics.

## MOLYDUVAL Pegasus UE 2 M

### Synthetic High Temperature Grease with MoS2

A high temperature grease for bearings at temperatures up to 230°C and high pressures. It reduces friction and wear because of a high percentage of purest molybdenum disulphide (MoS2). This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

Name : KPE2S-30  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Copper 24h 100°C : 1b Note

Base Fluid : Ester + PAO  
Name : ISO-L-XCGIB2  
Name : KPFE2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Temperature Range solid lubrication : 650 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UE 2 MM

### Synthetic High Temperature Grease with MoS2

A high temperature grease for bearings at very high temperatures and high pressures. It reduces friction and wear because of a high percentage of purest molybdenum disulphide (MoS2). This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Ester  
Name : ISO-L-XCGIB2  
Name : KPFE2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Temperature Range solid lubrication : 650 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UE 2 T

### Synthetic High Temperature Grease with PTFE

A high temperature grease for bearings at temperatures up to 230°C. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Ester  
Name : ISO-L-XCGIB2  
Name : KPFE2U-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UEF 2

### Synthetic High Temperature Hybrid Grease

High temperature roller bearing grease based on fluorinated hydrocarbons for the safe lubrication at high temperatures. Particularly in the temperature range between 180°C and 220°C it is economically applicable, and thus particularly for rolling and sliding bearing in furnaces suitably. Apart from its outstanding temperature resistance it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect.

Base Fluid : FHC, Ester  
Name : ISO-L-XBGA2  
Name : KEFK2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 420 mm²/s  
Density 15°C : 1300 kg/m³  
Temperature Range : -30 -> +220 °C  
Dropping Point : without °C

It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they decompose or were decomposed. Despite the relatively high price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

## MOLYDUVAL Pegasus UEF 2 LV

### Synthetic High Temp High Speed Grease

High temperature roller bearing grease based on fluorinated hydrocarbons for the safe lubrication at high temperatures. Particularly in the temperature range between 180°C and 220°C it is economically applicable, and thus particularly for medium to high speed rolling and sliding bearing. Apart from its outstanding temperature resistance it is also resistant against acids, caustic solutions and solvents, so that it is suitable for a wide range of special applications in chemical processes, e.g. if aggressive media or vapors the bearing affect.

Base Fluid : FHC, Ester  
Name : KEFK2U-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 1600 kg/m³  
Temperature Range : -40 -> +200 °C  
Temperature Range shortly up to : 220 °C  
nd value n-d : 500000  
Dropping Point : > 290 °C

It is used if conventional greases or other synthetic greases do not offer satisfying lubrication, because they decompose or were decomposed. Despite the relatively high price of this greases the employment can be economical in many cases, either because the lubrication intervals can be substantially increased, partly even a for-life lubrication is reached, or because friction reduction becomes even possible by it at all.

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Valenzia + Pegasus Mineral oil-based high-temperature greases

## MOLYDUVAL Pegasus AKM 2 LC

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Oil Separation : 1,9 %  
Flow pressure -25°C : < 1000 hPa (mbar)  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,86 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0  
Grade  
Corrosion Protection copper : 1B Grade

## MOLYDUVAL Pegasus AKM 2 PHV

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : ALK  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 440 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 250 °C



## MOLYDUVAL Pegasus BM 3 P

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

## High Temperature Grease

Base Fluid : Min  
Thickener : bentone  
Name : ISO-L-XADEB3  
Name : KP3N-20  
Consistency Class NLGI : 3  
Viscosity Base Fluid, 40°C : 400 mm²/s  
Viscosity Base Fluid, 100°C : 23 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus UM 1 M

A polyurea-based high-temperature product for lubricating roller and plain bearings at high temperatures. It protects against friction and wear, maintains its soft structure even at high temperatures, even if it is exceeded, it forms relatively few deposits. Anti-oxidation and anti-corrosion additives ensure a long service life and reliable protection against corrosion. Solid lubricants increase the pressure load capacity, reduce friction and offer emergency running properties.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XAEHB1  
Name : KPF1P-10  
Consistency Class NLGI : 1  
Density 15°C : 940 kg/m³  
Temperature Range : -10 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : > 250 °C  
rotary speed index n-dm : 200.000

## MOLYDUVAL Pegasus UM 30 ZSA

## MOLYDUVAL Valenzia LKM 1 B

## High Temperature Grease

## MOLYDUVAL Valenzia LKM 1 R

## High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 15 MHV

## High Temperature Grease

A highly friction-reducing high-pressure grease with MoS2. It contains a very temperature-stable, modern complex thickener and is therefore ideal for high-pressure and high-temperature lubrication points. The grease contains special active ingredients that reduce excessive wear even in the run-in phase and cause a flattening of the flank surfaces.

Base Fluid : Min  
Name : ISO-L-XCEIB1,5  
Name : KPF1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 990 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : >7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 HV

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 HVZ

A white high-temperature grease for long-term lubrication of rolling and plain bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable corrosion protection.

## White High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 0,950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Valenzia LKM 2 MHV

A highly friction-reducing high-pressure grease with MoS<sub>2</sub>. It contains a very temperature-stable, modern complex thickener and is therefore ideal for high-pressure and high-temperature lubrication points. The grease contains special active ingredients that reduce excessive wear even in the run-in phase and cause a flattening of the flank surfaces.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XCGIB2  
Name : KPF2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Dropping Point : > 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : >7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 MLZHV

A white high-temperature grease for long-term lubrication of rolling and plain bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable corrosion protection.

## White High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 0,950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Valenzia LKM 2 SP 3

## 3-Months-Lubricator with High Temperature Grease

## MOLYDUVAL Valenzia LKM 2 T

## High Temperature Grease with PTFE

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2

(PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Name : KPF2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 200 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Valenzia LKM 25 T

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

## High Temperature Grease with PTFE

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2/3P-30  
Consistency Class NLGI : 2-3  
Viscosity Base Fluid, 40°C : 200 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 0

A heavy duty lubrication grease for high loaded rolling and sliding bearings, offers excellent wear protection, good water resistance, corrosion protection and long-life performance. Especially suitable for central lubrication systems

## High Temperature Flow Grease

Base Fluid : Min  
Name : ISO-L-XCEEB0  
Name : KP0P-30  
Consistency Class NLGI : 0  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus AKM 1 C

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes graphite for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBFEB1  
Name : KPF1R-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 50 kPa  
nd value n-d : 400000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 1 HV

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBEEB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C

nd value n-d : 250000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass

## MOLYDUVAL Pegasus AKM 2 C

### High Temperature Grease

High-temperature grease for cost-effective long-term lubrication at high temperatures. Very good water resistance, good corrosion resistance, good oxidation resistance and a thermostable thickener allow high temperature peaks. At high temperatures, it will hardly soften or harden. Compared to other commonly used bentonite fats, it does not form any hardenings, relubrication is even easier at high temperatures.

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KPF2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 180 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Oil Separation : 1,9 %  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1B Grade

## MOLYDUVAL Pegasus AKM 2 CM

### High Temp. Grease with Solid Lubricants

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes graphite for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

Base Fluid : Min  
Name : ISO-L-XBFEB2  
Name : KPF2R-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 50 kPa  
nd value n-d : 400000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 HV

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 840 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 HVN

### High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m³



Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 MHV

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality high viscosity mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## High Temperature Grease with MoS<sub>2</sub>

Base Fluid : Min  
Name : ISO-L-XBEHB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 840 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus AKM 2 P

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBEEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance : < 15 kPa  
Dropping Point : > 250 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Oil Separation : 1,9 %  
Flow pressure -25°C : < 1000 hPa (mbar)  
Water Resistance Static : 2,9 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,86 mm  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1B Grade

## MOLYDUVAL Pegasus AKM 2 TZ

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with aluminium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## High Temperature Grease with PTFE

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Name : ISO-L-XBFEB2  
Name : KPF2R-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Oxidation resistance 100h 99°C : < 50 kPa  
nd value n-d : 250000  
Dropping Point : 250 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 1 M

A soft, friction-reducing high temperature fat with MoS<sub>2</sub>. It contains a very temperature-stable thickener and is therefore particularly for high pressure and high temperature-loaded lubrication fittings suitably. Due to its tough consistency it should not be used however for high-speed camps. It is very steady opposite solvents of all kinds, acids and caustic solutions.

## MOLYDUVAL Pegasus BM 1 P

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

## MOLYDUVAL Pegasus BM 2 HV

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

## MOLYDUVAL Pegasus BM 2 LV

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

## MOLYDUVAL Pegasus BM 2 M

A high temperature grease with MoS<sub>2</sub> and heavy duty extreme pressure addition, especially used for heavy dutied, hot lubrication problems. It is resistant against hot and cold water, against hot steam, acids and solvents. Due to the fact that it is extremely resistant to ageing it is especially fitted for those lubricating points which are accessible with much difficulties and which can therefore be oiled very seldom. No getting dirty of the goods by dropping greases.

## Multi Purpose Lubrication Paste with MoS<sub>2</sub>

Base Fluid : Min  
Name : ISO-L-XCFEA1  
Name : KF1T-30  
Consistency Class NLGI : 1  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : no °C

## High Temperature Grease

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB1  
Name : KP1P-20  
Consistency Class NLGI : 1  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1 Grade

## High Temperature Grease

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1 Grade

## High Temperature Grease

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XCDEB2  
Name : KP2N-30  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1 Grade

## High Temperature Grease With MoS<sub>2</sub>

Base Fluid : Min  
Name : ISO-L-XCFEA2  
Name : KF2R-30  
Consistency Class NLGI : 2

Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 2 T

## High Temperature Grease with PTFE

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : Bentone  
Name : ISO-L-XBDEB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus BM 2 TZ

## High Temperature Grease

A white lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Mineral  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BM 2 X

## High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : ISO-L-XBDEB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus BM 2 XHV

## High Temperature Grease

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

Base Fluid : Min  
Thickener : inorganic  
Name : MP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Pegasus BM 25 HV

A lubricating grease for bearings in machines working under high working temperatures. Contains inorganic non dropping thickener, is relative unsensitive to wet working conditions, hot and cold water, steam, aggressive fluids, acids.

When used at temperatures exceeding 150°C lubricating intervals should be shortened for reducing the risk of grease hardening in the bearing.

## High Temperature Grease

Base Fluid : Min  
Thickener : inorganic  
Name : KP2,5N-40  
Consistency Class NLGI : 2-3  
Viscosity Base Fluid, 40°C : 180 mm²/s  
Viscosity Base Fluid, 100°C : 14 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +150 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : no °C  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus UM 0 ZSA

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Thickener : PU  
Consistency Class NLGI : ca. 0  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +160 °C  
Dropping Point : >240 °C

## MOLYDUVAL Pegasus UM 1

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XCFHA1,5  
Name : K1,5R-30  
Consistency Class NLGI : 1-2  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +180 °C  
Dropping Point : 250 °C

## MOLYDUVAL Pegasus UM 1 HV

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBFHB1  
Name : KP1R-20  
Consistency Class NLGI : 1  
Density 15°C : 870 kg/m³  
Temperature Range : -20 -> +180 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UM 1 T

A high and wide temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains PTFE for reducing friction.

## Synthetic High Temperature Grease with PTFE

Base Fluid : Min  
Name : ISO-L-XBDIB1  
Name : KPF1N-20  
Consistency Class NLGI : 1  
Density 15°C : 870 kg/m³  
Temperature Range : -20 -> +150 °C  
Dropping Point : 240 °C

## MOLYDUVAL Pegasus UM 15

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Thickener : Polyurea  
Name : ISO-L-XCEIB1,5  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 180 °C



## MOLYDUVAL Pegasus UM 15 HV

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min + PAO  
Thickener : Polyurea  
Name : ISO-L-XCEIB1,5  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Dropping Point : 220 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2

High temperature manufacturing based on polyurea for the lubrication of rolling and plain bearings at high temperatures. It protects very well against friction and wear. It maintains its soft structure even at high temperatures, even when exceeded it forms relatively little deposits. Oxidation and corrosion protection additives ensure long life and reliable corrosion protection.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBEIB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -20 -> +160 °C  
Temperature Range shortly up to : 200 °C  
Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 250 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 3000 N

## MOLYDUVAL Pegasus UM 2 C

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains graphite for reducing friction.

## Synthetic High Temperature Grease with Graphite

Base Fluid : Min  
Name : ISO-L-XCFHB2  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2 HV

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XBFIB2  
Name : KP2R-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -20 -> +180 °C  
Dropping Point : 270 °C  
Oxidation resistance 100h : < 250 kpa

## MOLYDUVAL Pegasus UM 2 LV

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XCFHA2  
Name : K2R-30  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C

Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2 LVT

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease with PTFE

Base Fluid : Min  
Name : ISO-L-XCFHA2  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Lubricating Ability Wheel bearing test 105 ° C : 2 Grade  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UM 2 M

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XCFIB2  
Consistency Class NLGI : 2  
Density 15°C : 940 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UM 2 T

A high and wide temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication. It contains PTFE for reducing friction.

## High Temperature Grease with PTFE

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Dropping Point : 240 °C  
Wear Protection VKA welding load : 2000 N

## MOLYDUVAL Pegasus UM 25

A soft, high temperature ball and roller bearing grease manufactured using highly refined paraffinic base oils, a synthetic polyurea ashless organic thickener, and high performance rust and oxidation inhibitors offering a wide operating temperature range. The high percentage of additives forms a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication.

## High Temperature Grease

Base Fluid : Min  
Name : ISO-L-XCFHA2,5  
Consistency Class NLGI : 2-3  
Density 15°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Dropping Point : 230 °C  
Oxidation resistance 100h : 60 kpa  
Oxidation resistance 500h : 180 kpa  
Oil Separation 168h (7d) 40°C : 0,7 %  
Wear Protection VKA welding load : 2000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia

One of our most produced top greases. A light-colour heavy duty grease with exceptional water resistance for long time lubrication of roller and sleeve bearings at high temperatures. The special water and sea water resistance makes it suitable for a lot of applications at ships and nearby the coast.

## Long-Life Grease for High Temperatures

Base Fluid : Min  
Thickener : LiK

Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 H

### High Temperature Heavy Duty Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBDEB1  
Name : KP1P-20  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : 260 °C

## MOLYDUVAL Valenzia LKM 1 M

### High Temperature Grease

A friction-reducing high pressure grease with MoS2 for heavy-duty lubrication points. It protects against friction and wear, it still keeps it's smooth structure even in unfavourable working conditions. Oxidation- and corrosion protection additives guarantees long using times and reliable corrosion protection.

Molybdenum Disulphide provides extra protection against friction and wear. The MoS2 smooth surfaces and improves pressure load.

The lithium complex thickener supposed with high viscosity base fluid offers tackiness, extreme pressure, high temperature and heavy duty performance.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB1  
Name : KPF1R-30  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 ML

### High Temperature Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KP1R-30  
Consistency Class NLGI : 1

Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 1 MXHV

### High Temperature Grease

A high-temperature grease for the long-term lubrication of slow-running, highly loaded rolling and plain bearings based on a lithium complex soap and mineral oil, with a specially incorporated adhesive capacity. Very water resistant and corrosion resistant. Contains a combination of synergistic black solid lubricants, thus offering extreme pressure resistance. Also suitable in unfavorable environmental conditions, such as high moisture, impact-load, dust such as e.g. In cement plants and the steel industry.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XAEIB1  
Name : KPF1P-10  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1100 mm²/s  
Density 15°C : 920 kg/m³  
Temperature Range : -10 -> +160 °C

## MOLYDUVAL Valenzia LKM 1 T

### High Temperature Grease with PTFE

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCDIB1  
Name : KPF1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : ca. 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection copper : 1-120 Grade

## MOLYDUVAL Valenzia LKM 1 Z

### White High Temperature Grease

A premium extreme pressure high temperature grease intended for a wide variety of applications.

Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XDEIB1  
Name : KPF1P-40  
Consistency Class NLGI : 1  
Density 15°C : 900 kg/m³  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 15 G

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB1,5  
Name : KP1,5R-30  
Consistency Class NLGI : 1,5  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade



Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 15 LVT

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

### Long Term Grease with PTFE

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCFIB1,5  
Name : KPF1,5R-30  
Consistency Class NLGI : 1-2  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Valenzia LKM 15 PHV

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings. It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

### High Temperature Heavy Duty Grease

Base Fluid : Min  
Name : ISO-L-XBCIB1,5  
Name : KP1,5N-20  
Name : OGP1,5N-20  
Consistency Class NLGI : ca. 1,5  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 15 PLV

A modern developed special grease for open gears, based on a new complex soap, which has extreme high pressure characteristics.

### High Temperature Heavy Duty Grease

Base Fluid : Min  
Name : ISO-L-XCEIB1,5  
Name : OGP1,5P-30  
Name : KP1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 260 mm<sup>2</sup>/s  
Temperature Range : -30 -> +160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : > 7000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 15 XHV

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

### Long Term Grease for Heavy Loads

Base Fluid : PAO + Mineral  
Thickener : LiK  
Name : ISO-L-XCEIB1,5  
Name : KP1,5P-30  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 520 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 220 °C  
Water Resistance 80°C : < 6 %  
Dropping Point : 285 °C

Lubricating Ability 02-SKF-R2F : pass  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 0-1 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Valenzia LKM 2

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : +180 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 B

### High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4500 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 H

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XBDEB2  
Name : KP2P-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Dropping Point : 260 °C

## MOLYDUVAL Valenzia LKM 2 LV

### High Temperature Heavy Duty Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDEB2  
Name : KP2P-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : > 260 °C  
Utility Time 02-A/1500/6000-150 : > 100 h

Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-150 Grade

## MOLYDUVAL Valenzia LKM 2 M

### High Temperature Grease

A low friction high temperature grease for long life lubrication of bearings, sliding surfaces and chains in high temperature areas. Includes MoS<sub>2</sub> for reducing friction and increasing pressure capacity. Does not solidify at highest temperatures, the components evaporate in case of exceeded temperatures and relubrication must guaranteed. Greases based on complex soaps have best water resistance in comparison to many other soap thickeners.

Base Fluid : Min  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 280 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 ML

### High Temperature Grease

A light color multipurpose heavy duty grease for long time lubrication under high load. Very stable and water resistant. Selected additive package ensure longer life time for the lubricated parts and low maintenance costs. Highly refined base fluid, easy pumpable caused by its smooth structure.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XBDIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 4400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 PHV

### High Temperature Heavy Duty Grease

A multipurpose, high performance grease specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings.

It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KP2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 R

### High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Dropping Point : >245 °C  
Water Resistance Static : 0-90 Grade

Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 SP 12

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## 12-Months-Lubricator with High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KP2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 TG

A green colored premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

## Green High Temperature Grease with PTFE

Base Fluid : Min  
Name : ISO-L-XCDFB2  
Name : KPF2N-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 THV

A multipurpose, high performance grease with synergetic solid lubricants specially formulated for extreme pressure bearing applications operating under high load and low to medium speed. Manufactured using selected highly refined, high viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. This grease is especially suitable for medium to slow motion bearings. It is special suitable for applications where increased water resistance is required, together with high EP, mechanical stability and pump ability. Typical application area's are the Paper & pulp industry, where the lubricant has to resist high temperatures as well as aggressive process water sprays, and where shutting down cost is much more important than the product cost. Based on a combination of synthetic and mineral base fluids. It contains polymers to enhance adhesion.

## High Temperature Heavy Duty Grease

Base Fluid : Min  
Name : ISO-L-XBDIB2  
Name : KPF2N-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 32 mm<sup>2</sup>/s  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : > 280 °C  
Wear Protection VKA welding load : 7400 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia LKM 2 TX

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

## High Temperature Grease with PTFE

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCFIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 520 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C



Wear Protection VKA welding load : 5500 N

## MOLYDUVAL Valenzia LKM 2 XHV

Highly friction-reducing high-pressure grease for high-pressure, slow to medium-speed lubrication points that can only rarely be relubricated. Excellent protection against wear and tear, contains oxidation and corrosion protection additives that guarantee a long service life and reliable corrosion protection. Due to its high base oil viscosity, this lubricating grease has a better lubricating effect than comparable greases with a thin base oil in slow relative movements. Proven in paper machines in wet and dry areas.

## Long Term Grease for Heavy Loads

Base Fluid : PAO + Mineral  
Thickener : LiK  
Name : ISO-L-XCFHB2  
Name : KHCP2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 520 mm²/s  
Density 15°C : 940 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Water Resistance 80°C : < 5 %  
Dropping Point : 285 °C  
Lubricating Ability 02-SKF-R2F : pass  
Water Resistance Static : 1-90 Grade  
Water Resistance Dynamic : 1-80 Grade  
Wear Protection VKA wear scar : 0,6 mm  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Emcor, WWO, Salt Water : 2-2 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Valenzia LKM 2 Z

A white high-temperature grease for long-term lubrication of rolling and plain bearings under high loads and high temperatures. The latest generation of lithium complex grease has a much wider range of applications than conventional lithium saponified multi-purpose greases due to its better mechanical and thermal stability. The contained white solid lubricants offer protection against corrosion, reduction of friction and protection against tribocorrosion. Provides excellent protection against wear, retains its soft structure even under unfavorable operating conditions, contains oxidation and corrosion protection additives that offer long service life and reliable corrosion protection.

## White High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : + 200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 2 ZSP 3

## 3-Months-Lubricator with High Temperature Grease

## MOLYDUVAL Valenzia LKM 25

## High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Name : ISO-L-XCDFB2,5  
Name : KP2,5N-30  
Consistency Class NLGI : 2-3  
Density 15°C : 900 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3

## High Temperature Grease

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and

Base Fluid : Min  
Name : ISO-L-XCDFB3

resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Name : KP3N-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3 B

### High Temperature Grease

A blue colored, premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB3  
Name : KP3R-30  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia LKM 3 LV

### High Temperature Heavy Duty Grease

A high-temperature, high-temperature grease for long-term lubrication of high-speed rolling and plain bearings at high temperatures. It is a complex-based special grease and, due to better mechanical and thermal stability, has a far wider range of applications than conventional lithium saponified multipurpose greases.

Base Fluid : Min  
Name : ISO-L-XBDEB3  
Name : KP3P-20  
Consistency Class NLGI : 3  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> +150 °C  
Temperature Range shortly up to : +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : > 260 °C  
Utility Time 02-A/1500/6000-150 : > 100 h  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-150 Grade

## MOLYDUVAL Valenzia LKM 3 M

### Long Term Grease with MoS2 for Heavy Loads

MOLYDUVAL Valenzia M 3 is a high temperature heavy duty grease for long-time lubrication under strong conditions. It contains an effective content of solid lubricants reducing friction. MOLYDUVAL Valenzia M 3, a lithium based complex EP grease of new kind. Such greases have a wider application range than conventional lithium based EP greases in spite of their high mechanical and thermal stability. MOLYDUVAL Valenzia M 3 contains special EP and anti wear additives for wear endangered bearings.

Base Fluid : Min  
Name : ISO-L-XCEIB3  
Name : KPF3R-30  
Consistency Class NLGI : 3  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : 200 °C  
Dropping Point : 280 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Valenzia Z 2

A premium extreme pressure high temperature grease intended for a wide variety of applications.

Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion.

Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives.

It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

## White High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2P-30  
Consistency Class NLGI : 2  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Valenzia Z 2 SP 12

A premium extreme pressure high temperature grease intended for a wide variety of applications. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Manufactured using selected highly refined, medium viscosity base oils, a special complex thickener, rust and oxidation inhibitors, and extreme pressure and tackiness additives. It contains white solid lubricants giving white color to the grease. This solids protect from corrosion, reduce the friction coefficient and offer emergency lubrication.

## White High Temperature Grease

Base Fluid : Min  
Thickener : LiK  
Name : ISO-L-XCEIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -30 -> +170 °C  
Temperature Range shortly up to : +200 °C  
nd value n-d : 500.000  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N  
Corrosion Protection Emcor, WWO, distilled water : 0/0  
Grade  
Corrosion Protection copper : 1-100 Grade

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Pegasus High Temperature PAO Greases

## MOLYDUVAL Pegasus AKA 1 ZHV

### Synthetic High Temperature Grease

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks, the grease life will then however reduced and it must be relubricated more often.

Base Fluid : PAO  
Thickener : ALK  
Name : ISO-L-XDEIB1  
Name : KPHC1P-40  
Consistency Class NLGI : 1  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus BA 1 P

### Synthetic High Temperature Grease

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalphaolefines (PAO) well suited even for a wide range of plastic lubrication.

Base Fluid : PAO  
Name : ISO-L-XBGEA1  
Name : KHC1S-20  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus UA 0 TLV

### High Temperature Grease

A high temperature grease for bearings at highest temperatures. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Thickener : PU  
Name : ISO-L-XEGEB0  
Name : KPFHC0S-50  
Consistency Class NLGI : 0  
Viscosity Base Fluid, 40°C : 40 mm<sup>2</sup>/s  
Density 15°C : 950 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C



Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UA 15

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB1,5  
Name : KPHC21,5-50  
Consistency Class NLGI : 1-2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 HZ

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XDFIB2  
Name : KPHC2S-40  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus VA 2 XQ

### High Temperature Grease

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus AKA 1 LV

### High Temperature Grease

A special synthetic grease for lubrication of fast running rolling and sliding bearings. Based on a special low viscosity, synthetic base fluid, it is preferred for high speed bearings. It contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point and a special wear reducing component. It is easy to apply and pump, it is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as an instrument grease.

Base Fluid : PAO  
Thickener : ALK  
Name : KPHC1R-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -50 -> +150 °C  
Temperature Range shortly up to : 200 °C  
Flash Point PMCC, base oil : 246 °C  
Pour point Base Fluid : -57 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3000 N

## MOLYDUVAL Pegasus AKA 2 LV

A special synthetic grease for lubrication of fast running rolling and sliding bearings. Based on a special low viscosity, synthetic base fluid, it is preferred for high speed bearings. It contains anti-corrosion additives which provide additional rust protection in case of water or damp penetrate the lubrication point and a special wear reducing component. It is easy to apply and pump, it is free from particles which can cause noise in the bearings, thus the bearings run more quite, making it suitable as an instrument grease.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Thickener : AlK  
Name : ISO-L-XDFIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 105 mm²/s  
Density 15°C : 850 kg/m³  
Temperature Range : -40 -> +180 °C  
Flash Point PMCC, base oil : 246 °C  
Dropping Point : 260 °C  
Pour point Base Fluid : -57 °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3150 N  
Wear Protection VKA welding load : 315 N  
Corrosion Protection : 1 Grade

## MOLYDUVAL Pegasus AKA 2 M

A synthetic high temperature grease for long-term lubrication of bearings and gears. Very good water resistance and good corrosion protection - may be used in humid or vapor environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

Best wear protection and lowest friction is ensured by added purified microfine MoS2. This greases is based on an aluminum-complex-thickener in combination with the synthetic PAO (Polyalfaolefines), very modern base fluids for the lubricant industry.

## High Temperature Grease with MoS2

Base Fluid : PAO  
Name : KPFHC2R-40 und KPFH  
Consistency Class NLGI : 2  
Worked Penetration : 265-295 · 0,1 mm  
Density 15°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C  
Oxidation resistance 100h 99°C : < 30 kPa  
Dropping Point : 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade

## MOLYDUVAL Pegasus AKA 2 ZHV

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Thickener : AlK  
Name : ISO-L-XDEIB2  
Name : KPHC2P-40  
Consistency Class NLGI : 2  
Density 15°C : 920 kg/m³  
Temperature Range : -40 -> +170 °C  
Temperature Range shortly up to : 190 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus BA 2 M

A synthetic high temperature grease with MoS2 and heavy duty extreme pressure addition, especially used for heavy dutied, hot lubrication problems. It is resistant against hot and cold water, against hot steam, acids and solvents. Due to the fact that it is extremely resistant to ageing it is especially fitted for those lubricating points which are accessible with much difficulties and which can therefore be oiled very seldom. No getting dirty of the goods by dropping greases.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XBGEB2  
Name : KPFHC1.5S-20  
Consistency Class NLGI : 1-2  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +200 °C  
Temperature Range in short-term relubrication : +230 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 P

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalfaolefines (PAO) well suited even for a wide range of plastic lubrication.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XBGEA2  
Name : KHC2S-20  
Consistency Class NLGI : 2

Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 PLV

A synthetic high temperature grease for lubrication of bearings, surfaces and chains. Offers has extreme load-carrying properties and good oxidation stability. Based on high temperature resistant polyalphaolefines (PAO) well suited even for a wide range of plastic lubrication.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDFEB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus BA 2 ZT

A white colored high temperature grease with solids and heavy duty extreme pressure additives, especially used for heavy dutied, hot lubrication problems. It is relative good resistant against hot and cold water, against hot steam, acids and solvents.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFHC2U-20  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : PTFE --

## MOLYDUVAL Pegasus BA 3 P

A light colour low temperature grease for normal loaded bearings. Because of its non soap thickener it offers extremely good water resistance. The low viscosity synthetic base fluid making it suitable for very low temperatures. It is very soft and therefore suitable for central lubrication system or bearings with dip lubrication.

## Synthetic High Temperature Grease

Base Fluid : Syn  
Name : KPHC3R-30  
Consistency Class NLGI : 3  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -30 -> +220 °C  
Dropping Point : no °C

## MOLYDUVAL Pegasus LKA 1

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDFAA1  
Name : KHC1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 1 HV

## MOLYDUVAL Pegasus LKA 1 HVX

A lithium complex thickened lubricating grease based on a high viscous synthetic oil. The grease contains antioxidants, corrosion inhibitors and EP/AW additives. The lithium complex soap, together with the synthetic base oil, makes the product suitable for applications at elevated temperatures, heavily loaded bearings and slow moving applications. The complex soap structure also gives the product a high degree of mechanical stability. This enhances the performance and prolongs relubrication intervals. The specially developed additive package gives the grease a very high load carrying capacity and excellent wear protection.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XCDEB1  
Name : KPHC1R-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 1500 mm<sup>2</sup>/s

It is a modern high performance synthetic product suitable for both industrial and automotive applications. The product's properties make it the primary choice for bearings operating at extremely low speeds, under heavy loads and at high temperatures.

Viscosity Base Fluid, 100°C : 140 mm²/s  
Density 15°C : 870 kg/m³  
Temperature Range : -30 -> +150 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 270 °C  
Oil Separation 168h (7d) 40°C : 3 %  
Water Resistance Static : 0-90 Grade  
Water Resistance Static : 1-90 Grade  
Wear Protection VKA wear scar : 0,8 mm  
Corrosion Protection Emcor, WWO, distilled water : 0-1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus LKA 1 PLV

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +160°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 180°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDDHB1  
Name : KPH12N-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 200 °C  
nd value n-d : 600.000  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 1 PMV

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEDHB1  
Name : KHCP1N-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -50 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 1 PT

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to very high temperatures. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease with PTFE

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO  
Name : ISO-L-XDFEB1  
Name : KPFHC1R-40  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 68 mm²/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade



## MOLYDUVAL Pegasus LKA 15

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDFAB1,5  
Name : KPHC1,5R-40  
Consistency Class NLGI : 1,5  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Thickener : LiK  
Name : ISO-L-XDFAA2  
Name : KHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 LF

A brightly colored, synthetic fat broadband PAObased for long-term lubrication at high temperatures. It has excellent water resistance and good corrosion protection, can therefore also be used in very humid environments at very high temperatures. The product contains special additives (friction modifiers), which reduce friction and reduce the breakaway torque of ball joints. The good oxidation resistance and the use of thermostable base oils allow short-term temperature peaks above 200 ° C. Greases based PAO are very good sealing and plastic compatible. This grease can be used in many areas to replace mineral greases.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Thickener : Li  
Name : ISO-L-XDFAA2  
Name : KHC2R-30  
Consistency Class NLGI : 2  
Temperature Range : -40 -> +180 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 M

A synthetic high temperature grease intended for use in plain and rolling element bearings operating at slow speeds, under heavy loads and high temperatures. Very good water resistance and good corrosion protection - may be used in humid or vapor environment. Best wear protection and lowest friction is ensured by added purified microfine MoS<sub>2</sub>. This greases is based on a lithium-complex-thickener.

## Synt High Temperature Grease with MoS<sub>2</sub>

Base Fluid : PAO  
Name : ISO-L-XDFEB2  
Name : KPFHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Dropping Point : 280 °C  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 MLV

A premium and light extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality synthetic PAO base oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. The synthetic base fluid offers stable high temperature properties.

## Synt High Temperature Grease with MoS<sub>2</sub>

Base Fluid : PAO  
Name : ISO-L-XDDHB2  
Name : KPFHC2N-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 15°C : 950 kg/m<sup>3</sup>

Temperature Range : -40 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 3900 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 b Grade

## MOLYDUVAL Pegasus LKA 2 PLV

A light-colored, synthetic all-round grease based on polyalphaolefin (PAO) for long-term lubrication at medium to high temperatures. Has very good water resistance and good corrosion protection, so it can also be used in extremely humid environments at very high temperatures. The high temperature resistance is guaranteed by good oxidation additives and the use of thermally stable base oils. Lubricating greases based on PAO are very compatible with seals and plastics. This lubricating grease can replace mineral lubricating greases in many areas and is used in many areas of the automotive industry, not least because of its good low temperature resistance.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDDIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range shortly up to : 220 °C  
nd value n-d : 600.000  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 140°C : pass  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3600 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Pegasus LKA 2 PMV

Light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to very high temperatures. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short highest temperature peaks, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDEIB2  
Name : KPHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : 260 °C  
Water Resistance Static : 1 Grade  
Wear Protection VKA welding load : 3400 N  
Corrosion Protection Emcor, WWO, distilled water : 0-1 Grade  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Pegasus LKA 2 PP

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XCFHB2  
Name : KPHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 PTZ

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XCEHB2  
Name : KPFHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -30 -> +160 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 R

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDFAA2  
Name : KHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 T

A light coloured, synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or damp environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synt High Temperature Grease with PTFE

Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

Base Fluid : PAO  
Name : ISO-L-XDFAB2  
Name : KPFHC2R-40  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKA 2 Z

A white colored synthetic high temperature grease for the long-term lubrication with high temperatures. Very good water resistance and good corrosion protection, may be used in humid or steam environment up to +200°C. The good oxidation resistance and the use of thermic stable PAO base fluids withstand short temperature peaks over 200°C, the grease life will then however reduced and it must be relubricated more often.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XDFAA2  
Name : KFHC2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Temperature Range : -40 -> +180 °C  
Temperature Range shortly up to : 220, 250 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : 280 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKE 1

Base Fluid : Ester  
Name : ISO-L-XCFEB1  
Name : KPE1R-30

Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 150 mm²/s  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance : < 30 kPa  
Dropping Point : > 250 °C  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 40 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus LKMA 2 T

A premium extreme pressure high temperature grease intended for a wide variety of applications including bearings. Based on high quality mineral oil combined with lithium complex thickener it provides excellent high temperature performance with good adhesion, structural stability and resistance to water. It has a high level of chemical stability and offers excellent protection against rust and corrosion. Contains microfine polytetra-fluoroethylen (PTFE) for reducing friction, offering dry lubrication and preventing seizure.

## Long Term Grease with PTFE

Base Fluid : PAO+Min  
Thickener : LiK  
Name : ISO-L-XCFIB2  
Name : KPF2R-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 500-600 mm²/s  
Density 15°C : 910 kg/m³  
Temperature Range : -30 -> +180 °C  
Temperature Range shortly up to : +220 °C  
Dropping Point : 260 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade

## MOLYDUVAL Pegasus UA 1

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 1 LF

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 260 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 1 M

A high temperature grease for bearings at highest temperatures and high pressures. It reduces friction and wear because of a high percentage of purest molybdenum disulphide (MoS2). This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease

## Synthetic High Temperature Grease with MoS2

Base Fluid : PAO  
Name : ISO-L-XCGIB1



with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

Name : KPFC1S-30  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 1 N

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## Synthetic High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEGIB1  
Name : KPHC1S-50  
Consistency Class NLGI : 1  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C

## MOLYDUVAL Pegasus UA 2

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 C

A high temperature grease for bearings at temperatures up to 230°C and high pressures. It reduces friction and wear because of a high percentage of purest graphite. This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

## Synthetic High Temperature Grease with Grafit

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPF2S-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Temperature Range solid lubrication : 450 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 00 Grade

## MOLYDUVAL Pegasus UA 2 HV

A high temperature grease for roller and plain bearings, wire guides, plastic bearings and slides, intended for operating in a wide temperatures range. It is formulated with innovative organic thickeners provided with high chemical and thermal stability together with high viscosity index synthetic oils showing outstanding lubricating capacity and resistance to aging.

Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

## High Temperature Grease

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPHC2S-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -50 -> +200 °C

Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 LV

### High Temperature Grease

A high temperature grease for bearings at highest temperatures. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : Syn  
Name : ISO-L-XEFEB2  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 100 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +180 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : > 250 °C  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Pegasus UA 2 M

### Synthetic High Temperature Grease with MoS2

A high temperature grease for bearings at verhy high temperatures and high pressures. It reduces friction and wear because of a high percentage of purest molybdenum disulphide (MoS2). This solid lubricants offers lubrication at temperatures exceeding 230°C. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication un-der a wide range of operating conditions. Pumpability is ex-cellent over a wide range of temperatures as indicated by the Lincoln ventmeter test and the relatively low pressure drop in piping. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XEGIB2  
Name : KPFHC2S-50  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 880 kg/m³  
Temperature Range : -50 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 250 °C  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Pegasus UA 2 T

### Synthetic High Temperature Grease with PTFE

A high temperature grease for bearings at temperatures up to 230°C. It reduces friction and wear. Special additives form a grease with best oxidation resistance and best corrosion protection for long-life and life-time lubrication providing outstanding film strength and adhesive properties. It stays in place, sticks to bearing surfaces and, thus, provide excellent lubrication under a wide range of operating conditions. Pumpability is excellent over a wide range of temperatures. Oxidation inhibitors ensure long life in storage and in use.

Base Fluid : PAO  
Name : ISO-L-XCGIB2  
Name : KPEF2S-30  
Consistency Class NLGI : 2  
Viscosity Base Fluid, 40°C : 320 mm²/s  
Density 15°C : 970 kg/m³  
Temperature Range : -30 -> +200 °C  
Temperature Range shortly up to : 230 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : > 260 °C  
Evaporation Loss 22h 100°C (210°F) : < 0,25 %  
Corrosion Protection Emcor, WWO, distilled water : 1 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice.

All previous versions of this manual are no longer valid. Updating : 17.03.2023



# MOLYDUVAL Sprays

## All Sprays

### MOLYDUVAL Aero LKA Spray

#### Synthetic Spray for Low Temperatures

A fully synthetic low temperature special grease for lubrication of automotive door lock mechanism and bearings. Frost and water resistant and contains anti-corrosion additives providing additional protection in case of water or damp penetration.

Base Fluid : PAO  
Name : ISO-L-XEDIB2  
Name : KPHC2N-60  
Viscosity Base Fluid, 40°C : 27 mm²/s  
Density 40°C : 880 kg/m³  
Temperature Range : -60 -> +140 °C  
Temperature Range shortly up to : 200 °C  
Utility Time : 140 h  
nd value n-d : 1.000.000  
Dropping Point : 260 °C  
Water Resistance Static : 1-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1 Grade

liquid or greasy lubricants.

### MOLYDUVAL Aladin GG Spray

#### Special Coating for Moulds

A fast drying extreme pres-sure bonded coating based on Graphite. It will be used for service-free dry lubrication under heavy load. A thin, dry film lubricant will be formed which sticks well to any kind of surface. The spray contains solid lubricants like graphite, providing a superior system of lubrication. It flows into nooks, crannies, and tight spots. It can even flow by capillary action. The film is not powdery unless scraped from the surface.

Resin : anorganic  
Drying Time 20°C, griffest : 5 min  
Drying Time 20°C, ausgehärtet : 1 min  
Surface Covering : 7 m²/kg  
Fineness Ø : 0,5 µm

### MOLYDUVAL Aero MPV Spray

#### Grease Spray for Door Lock Mechanisms

A low temperature special grease for lubrication of automotive door lock mechanism to temperatures down to -50°C. It is frost and water resistant and contains anti-corrosion additives providing additional protection in case of water or damp penetration. The grease is easy to apply and pump at low temperatures.

Name : ISO-L-XEBHA2  
Name : K2G-50  
Viscosity Base Fluid, 40°C : 15 mm²/s  
Temperature Range : -50 -> +100 °C  
Temperature Range shortly up to : 120 °C  
nd value n-d : 800.000  
Dropping Point : 150 °C

### MOLYDUVAL Aladin GP Spray

#### Graphite Dry Film Lubricant

A fast drying bonded coating spray based on Graphite. Used for service-free dry lubrication under heavy load. A thin dry film is formed which sticks well to many kind of surface. Before drying it flows into nooks, crannies, and tight spots. It can even flow by capillary action. The film is not powdery unless scraped from the surface.

Temperature Range : 1000 °C  
Drying Time 20°C, griffest : 1 min

### MOLYDUVAL Aladin FC Spray

#### PTFE Dry Lubricant

An effective dry lubricant for applications under extreme conditions such as high pressures or high temperatures. It is suitable for dry lubrication as well as for adding it to

Basis : PTFE  
Temperature Range : -180 -> +240 °C  
Unit : 400 ml

### MOLYDUVAL Aladin M Spray

#### Antifricion Coating

A fast drying extreme pressure bonded coating spray based on MoS2. It will be used for service-free dry lubrication under heavy load, but low speed. It sticks well to surfaces and will then be used as dry lubricant

Resin : anorganic  
Temperature Range : -185 -> +450 °C  
Temperature Range : 630 °C  
Drying Time 20°C, griffest : 1 min

when liquid lubricants are not sufficient enough because of great heat or cold or other unfavourable operating conditions. Usefull for extreme loads, high pressure and temperatures. Reduces friction and wear.

Drying Time 20°C, ausgehärtet : 5 min  
Layer Thickness optimal : 8-12 µm  
Pressure Load : 12 kN  
Lubricating Ability Press-fit test : 0,06  
Unit : 400 ml  
Surface Covering : 7 m²/kg  
Fineness Ø : 0,4 µm

## MOLYDUVAL Aladin MC Spray

### Dry Film Lubricant

A fast drying extreme pressure bonded coating spray based on MoS<sub>2</sub>. It will be used for service-free dry lubrication under heavy load, but low speed. It sticks well to surfaces and will then be used as dry lubricant when liquid lubricants are not sufficient enough because of great heat or cold or other unfavourable operating conditions. Usefull for extreme loads, high pressure and temperatures. Reduces friction and wear.

Density 40°C : 1040 kg/m³  
Temperature Range : -185 -> +450 °C  
Temperature Range : 650 °C  
Drying Time 20°C, griffest : 5 min  
Drying Time 20°C, ausgehärtet : 30 min  
Layer Thickness optimal : 8-12 µm  
Pressure Load : 12 kN  
Unit : 400 ml  
Surface Covering : 7 m²/kg  
Fineness Ø : 0,4 µm

## MOLYDUVAL Aladin MCQ Spray

### Dry Film Lubricant

A fast drying extreme pressure bonded coating spray based on MoS<sub>2</sub>. It will be used for service-free dry lubrication under heavy load, but low speed. It sticks well to surfaces and will then be used as dry lubricant when liquid lubricants are not sufficient enough because of great heat or cold or other unfavourable operating conditions. Usefull for extreme loads, high pressure and temperatures. Reduces friction and wear.

Density 40°C : 1040 kg/m³  
Temperature Range : -185 -> +450 °C  
Temperature Range : 650 °C  
Drying Time 20°C, griffest : 5 min  
Drying Time 20°C, ausgehärtet : 30 min  
Layer Thickness optimal : 8-12 µm  
Pressure Load : 12 kN  
Unit : 400 ml  
Surface Covering : 7 m²/kg  
Fineness Ø : 0,4 µm

## MOLYDUVAL Aladin MG Spray

### Dry Film Lubricant

A fast drying extreme pressure bonded coating spray based on MoS<sub>2</sub>. It will be used for service-free dry lubrication under heavy load, but low speed. It sticks well to surfaces and will then be used as dry lubricant when liquid lubricants are not sufficient enough because of great heat or cold or other unfavourable operating conditions. Usefull for extreme loads, high pressure and temperatures. Reduces friction and wear.

Resin : anorganic  
Temperature Range : -185 -> +450 °C  
Drying Time 20°C, griffest : 1 min  
Drying Time 20°C, ausgehärtet : 5 min  
Layer Thickness optimal : 8-12 µm  
Pressure Load : 12 kN  
Lubricating Ability Press-fit test : 0,06  
Unit : 400 ml  
Surface Covering : 7 m²/kg  
Fineness Ø : 0,4 µm

## MOLYDUVAL Aladin N Spray

### Dry Film Lubricant

Ready-to-use bonded coating based on hexagonal boron nitride and organic binders in solvent. It is particularly suitable for coating dense, metallic materials. The layer on the surface is a highly effective, very well adhering, dense separating and sliding film. The organic binder provides up to 250 ° C for a very good adhesion. Above this temperature there is a loose boron nitride

Temperature Range : -0 -> 1000 °C  
Temperature Range in vacuum : 1400 °C  
Temperature Range in inert gases : 2000 °C

film which guarantees good lubricating and separating properties up to high temperature ranges. Boron nitride is effective up to about 1000 ° C in air and up to about 2000 ° C under inert gas. Suitable as a release agent for molten metals, such as aluminum and magnesium, zinc and lead, for pressing sinters and hardmetal powders, and for coating metals and ceramics.

## MOLYDUVAL Aladin NB Spray

### Dry Film Lubricant, Blue Colored

A ready to use coating form as aerosol. It is an effective dry lubricant for applications under extreme conditions such as high pressures or temperatures. It provides a coverage of high purity, extremely fine, BN crystals in a fast drying solvent-base carrier. It produces a coating with even film build that is virtually binderless.

Temperature Range : -0 -> 1000 °C  
Temperature Range in vacuum : 1400 °C  
Temperature Range in inert gases : 2000 °C

## MOLYDUVAL Aladin NE Spray

### Dry Film Lubricant

A ready to use coating form as aerosol. It is an effective dry lubricant for applications under extreme conditions such as high pressures or temperatures. It provides a coverage of high purity, extremely fine, BN crystals in a fast drying solvent-base carrier. It produces a coating with even film build that is virtually binderless.

Temperature Range : -0 -> 1000 °C  
Temperature Range in vacuum : 1400 °C  
Temperature Range in inert gases : 2000 °C

## MOLYDUVAL Aladin NH Spray

### Dry Film Lubricant

A ready to use coating form as aerosol. It is an effective dry lubricant for applications under extreme conditions such as high pressures or temperatures. It provides a coverage of high purity, extremely fine, BN crystals in a fast drying solvent-base carrier. It produces a coating with even film build that is virtually binderless.

Temperature Range : -0 -> 1000 °C  
Temperature Range in vacuum : 1400 °C  
Temperature Range in inert gases : 2000 °C

## MOLYDUVAL Aladin T Spray

### PTFE Dry Film Lubricant

For the production of PTFE dry lubricating films with good release and sliding properties. Prevent wear, increase abrasion resistance and prevent sticking. PTFE is characterized by a very low coefficient of friction.

Basis : PTFE  
Temperature Range : -180 -> +240 °C  
Unit : 400 ml

## MOLYDUVAL AntiStatik Spray

### Anti Static Spray with Cleaning Properties

Eliminates the impact effect and lifts the

Temperature Range : -50 -> +220 °C



attraction of dust and plastic fibers. Such materials become electro-statically, will attract dust and get dirty quickly.

## MOLYDUVAL Attila F Spray

### Special Fluorinated Lubrication Fluid

A heavy - duty lubrication oil for highest temperatures (in the range up to +300°C). It is especially used, if conventional hydrocarbon oils or other synthetic fluids shows no satisfactory lubrication effect because of decomposition. Although it is relative expensive the use can be economic, either the lubrication intervals will be increased, partly life time lubrication can be reached, or friction reduction is possible.

Base Fluid : PFPE  
Viscosity Class : 68/100 ISO-VG  
Viscosity 40°C : 70 mm²/s  
Viscosity Index : 124  
Density 40°C : 1900 kg/m³  
Temperature Range : -30 -> +180 °C  
Friction Coefficient : 0,07  
Flash Point COC : no °C  
Pour point : -35 °C  
Stability Ionising radiation : 5 x 10E8

## MOLYDUVAL Attila TF Spray

### Agent Resistant Grease

A heavy duty lubrication grease for highest temperatures and especially used, if conventional hydrocarbon oils or other synthetic fluids shows no satisfactory lubrication effect because of decomposition. Although it is relative expensive the use can be economic, either the lubrication intervals will be increased, partly life time lubrication can be reached, or friction reduction is possible.

Base Fluid : FHC  
Name : ISO-L-XBGA2  
Name : KFK2U-20  
Density 15°C : 1930 kg/m³  
Temperature Range : -20 -> +260 °C  
Temperature Range shortly up to : 300 °C  
Dropping Point : without °C  
Flash Point COC : without °C  
Evaporation Loss 22h 149°C : 3 %  
Evaporation Loss 22h 204°C : 10 %  
Oil Separation 18h 40°C : 4 %  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA wear scar : 0,5 mm  
Stability Ionising radiation : 5 \* 10E8

## MOLYDUVAL Belt Spray

### Spray for Belt Drives

Friction spray. Effective anti-slip agent for V-belts and other slippery surfaces.

Basis : Wax

## MOLYDUVAL Biolube H Spray

### Lubricant for Food Industry

A high performance very tacky synthetic lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Name : CLPHC460  
Viscosity Index : 156  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +200 °C  
Pour point : -27 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Biolube L Spray

### Oil Spray for Food Industry

A high performance versatile lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base

Base Fluid : Paraffin  
Viscosity 40°C : 17 mm²/s  
Density 40°C : 880 kg/m³

fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

## MOLYDUVAL Biolube OEL Spray

### Lubrication Oil For Food Industry

A high performance versatile lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : White Oil  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm²/s  
Viscosity Index : 107  
Density 40°C : 880 kg/m³  
Temperature Range : -10 -> 120 °C  
Pour point : -12 °C  
Flash Point COC : 246 °C

## MOLYDUVAL Carat Spray

### Heavy Duty Grease Spray

A white colour lubrication grease for lubrication of bearings, chains, wire ropes, and other lubrication points in case of high pressures or other unfavourable conditions. It is even suitable for use as a light colour running-in, assembly and multi-purpose paste. Very water resistant and long-term stable. The containing combination of synergetic white colour solid lubricants offers protection from tribocorrosion and increases wear resistance.

Base Fluid : White Oil  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Density 15°C : 1000 kg/m³  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 265 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Water Resistance Static : 1-90 Grade  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Carat TE Spray

### White Lubrication Paste

A white grease based on high-viscosity synthetic oils in combination with PTFE for the lubrication of sliding surfaces where a stable lubricating film and low static friction are required. Suitable for seals, elastomers, rubber and plastic parts, even where there is plastic-metal contact. The contained solid lubricant PTFE reduces friction and wear and increases the lubricating effectiveness, which is usually insufficient with "normal" lubricating greases.

Base Fluid : Syn  
Density 40°C : 990 kg/m³  
Temperature Range : -30 -> +250 °C  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Fineness Ø : 0,35 µm

## MOLYDUVAL Carat Z Spray

### White Lubrication Paste

A white colour multi purpose paste for lubrication and assembly of screws, bearings and other sliding surfaces. Forms a thin, pressure resistant solid lubricant film, preventing corrosion and reducing friction in case of high pressures or/and high temperatures. Used as assembly paste, assembly and disassembly will go easier. The solid lubricants protect against wear, running-in defects and guarantee good antifrictional properties.

Base Fluid : PAO  
Name : MPF1,5-30  
Density 15°C : 1100 kg/m³  
Temperature Range : -60 -> +250 °C  
Dropping Point : no °C

## MOLYDUVAL Ciric A Spray

### Anti-Seize Spray

An aluminium based anti-seize lubricant paste containing in a high-quality grease. Suitable for high temperature lubrication of screws and sliding parts. The high content of solid lubricants, mainly metal powders, reduces friction to a minimum, loosening after long periods is possible, and it protects parts from rusting, corroding, galling and seizing in conditions up to highest temperatures.

Base Fluid : Syn  
Density 15°C : 1400 kg/m<sup>3</sup>  
Temperature Range : -70 -> +1200 °C  
Dropping Point : no °C

## MOLYDUVAL Ciric B Spray

### Anti-Seize Spray

A copper-based anti-seize lubricant paste containing copper and graphite in a high-quality grease. Suitable for high temperature lubrication of screws and sliding parts. The high content of solid lubricants, mainly metal powders, reduces friction to a minimum, loosening after long periods is possible, and it protects parts from rusting, corroding, galling and seizing in conditions up to highest temperatures.

Base Fluid : Syn  
Name : MPF2U-40  
Density 15°C : 1600 kg/m<sup>3</sup>  
Temperature Range : -40 -> +1200 °C  
Dropping Point : no °C  
Water Resistance Static : 1-90 Grade

## MOLYDUVAL Cleaner AC Spray

### Special Solvent

An acetone based pre-cleaner ideal for removing grease, oil, sealants, adhesives or any other dirt film from the enameled, fiberglass, acrylic, porcelain surfaces and more. The highly concentrated solvent blend provides maximum performance in a brake parts cleaner without the use of ozone depleters or chlorinated solvents. Powerful blasting spray easily removes brake fluid, grease, oily dirt and contaminants from linings, pads and drums, cylinders and springs.

Appearance : Aerosol  
Basis : Acetone  
Density 15°C : 790 kg/m<sup>3</sup>  
Evaporation Digit : 2,1  
Spray Nozzle : A15  
Filling Volume : 400ml

## MOLYDUVAL Cleaner AIR Spray

### Air Condition Cleaning Spray

A flame resistant, arrears-free and pollution free cleaning fluid for air conditioning systems. Disease germs and bacteria are eliminated reliably by the disinfecting effect. Besides it protects long continuously against new formation and is completely free from solvents. Disturbing smells are likewise long continuously eliminated by the pleasant apple smell note.

Unit : 400 ml

## MOLYDUVAL Cleaner BR Spray

### Brake Cleaning Spray

Brake Cleaner. Suitable also for maintenance, repair, and assembly, for

Basis : Hydrocarbons  
Density 15°C : 800 kg/m<sup>3</sup>

degreasing parts and tools. Dirt will be solved and removed.

## MOLYDUVAL Cleaner DSI Spray

### Inflammable Air Spray

Flame resistant maintenance and cleaning spray, everywhere applicable, where dust and loose dirt can be removed in conventional way only laboriously. It permits a dry, clean and pressureful cleaning also in inaccessible places and on sensitive surfaces. It is not inflammable and well suitable for the cleaning at electrical contacts and construction units. Can be used for the dust and schmutzentfernung at keyboards, computer housings, switchgear cabinets, measuring and automatic control instruments, optical devices, on HiFi and video devices as well as modules, printed circuit boards, solenoid actuators, drive assemblies etc.

Propulsant : R1234ze

## MOLYDUVAL Cleaner EL Spray

### Cleaning Spray for Electrical Contacts

A new electrical contact cleaner. Suitable to clean all contacts, to remove greasy contamination and for the cleaning from old residues, which often lead to electricity loss and disturbances. The product evaporates intermediately, almost residue-free.

Basis : Aliphates  
Density 40°C : 770 kg/m<sup>3</sup>  
Propulsant : CO<sub>2</sub>  
Ignition Temperature : 240 °C

The small amount of active substances staying preserves and prevents from oxidation of the cleaned contacts.

The electrical contact cleaner spray is filled up with flame resistant propellant (CO<sub>2</sub>).

## MOLYDUVAL Cleaner ELI Spray

### Nonflammable Electronic Cleaner Spray

Relatively environmentally friendly and non-flammable cleaner without CFC's. A product with very high solubility and cleanability, suitable for cleaning and degreasing electrical and electronic components and contacts. Cleans the surface, evaporates quickly and leaves no residue, leaves a dry surface. Due to its non-flammability, it can, if necessary, be sprayed onto components that are under tension.

Basis : HFE  
Density 40°C : 1500 kg/m<sup>3</sup>  
Propulsant : R134a

## MOLYDUVAL Cleaner FC 1000 Spray

### Antistatic Foam Cleaning Spray

Cleaner for maintenance, repair, and assembly, for degreasing parts and tools. Dirt will be solved and removed. Suitable for many plastics, glass, wood.

Basis : Alkohole  
Density 15°C : 800 kg/m<sup>3</sup>

Usefull for computers, televisions, monitors.

## MOLYDUVAL Cleaner FC 6000 Spray

### Antistatic Foam Cleaning Spray

Antistatic cleaning spray for plastics, glass, metals, wood and many other active ingredients. Suitable e.g. for cleaning computers, EDP systems, household appliances.

Basis : Alkohole  
Density 15°C : 800 kg/m<sup>3</sup>

## MOLYDUVAL Cleaner FROST Spray

### Defroster Spray for Windscreens

Simplifies defrosting, removes the need to scrape or chip, saves time. Also suitable for use on frozen car door locks.

Basis : Alkohol

## MOLYDUVAL Cleaner GR Spray

### Gasket Remover Spray

For the removal of cured chemical gaskets by softening the gasket material on the flanges, eliminating excessive scraping. The product develops a layer on the gasket, thus allowing it to work for the required duration.

Basis : Methylal  
Density 15°C : 880 kg/m<sup>3</sup>

Suitable for removing chemical gaskets from metal flanges where excessive scraping could easily lead to flange surface damage. May also be used to aid removal of adhesives, baked-on grease or oil, built-up carbon deposits, dried oils, paint, varnish, etc. from metal flanges or surfaces.

## MOLYDUVAL Cleaner PVC Spray

### Cleaner for Plastic Residues

Very strong Remover for hardened 1 k- and 2 k- Plastic-Systems. Serves as a substitute for critical solvents. Free from NMP, NEP and GBL. Based on modified organic solvents, which are specifically designed for removing stubborn dirt and baked on most metal substrates.

Basis : Solvents  
Density 40°C : 1050 kg/m<sup>3</sup>  
Flash Point COC : 100 °C

## MOLYDUVAL Cleaner Spray

### Cleaning Spray

Cleaner for maintenance, repair, and assembly, for degreasing parts and tools. Dirt will be solved and removed. Suitable as a brake cleaner, too.

Basis : Hydrocarbons  
Density 15°C : 800 kg/m<sup>3</sup>

## MOLYDUVAL Cockpit Spray

### Cockpit Spray for Vehicle Care

Use on all interior plastics and vinyl's for a natural semi-glossy, non-greasy, durable finish. Creates an anti-static barrier to repel dust and does not build up. Spray on a

Unit : 400 ml

clean cloth, work into the surface and buff off the excess. Also removes wax buildup from rubber and vinyl trim.

## MOLYDUVAL Cronos M Spray

Base Fluid : Paraffin  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Density 40°C : 880 kg/m<sup>3</sup>

## MOLYDUVAL Developer C Spray

### Developer Spray for Crack Detection

Developer Spray for non-destructive inspection systems (NDT) suitable for fast reliable visual detection of cracks or flaws. Finds speedy and sure cracks in metal which would normally not be visible by eyes. Usually there should be used 3 sprays one after the other. First MOLYDUVAL Cleaner Spray, then MOLYDUVAL Penetrant B Spray, and latter MOLYDUVAL Developer C Spray.

Unit : 500 ml

## MOLYDUVAL Emulator AL Spray

### Separating Agent for Thermoplastics

A silicone free release and lubrication agent for rubber, plastics and many types of resins. When sprayed or brushed on surfaces, it leaves a thin film with excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Used as a release agent in plastics and rubber industry as well as for maintenance of plastic parts.

Base Fluid : PAO  
Viscosity 40°C : 7,5 mm<sup>2</sup>/s  
Viscosity 100°C : 1,2 mm<sup>2</sup>/s  
Density 40°C : 800 kg/m<sup>3</sup>  
Pour point : -73 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Emulator EG 40 W Spray

### Separating Agent for Thermoplastics

A silicone free release and lubrication agent for rubber, plastics and many types of resins. When sprayed or brushed on surfaces, it leaves a thin film with excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Used as a release agent in plastics and rubber industry as well as for maintenance of plastic parts.

Basis : Ester  
Density 40°C : 920 kg/m<sup>3</sup>

## MOLYDUVAL Emulator GE Spray

### Separating Agent for Thermoplastics

A silicone free release and lubrication agent for rubber, plastics and many types of resins. When sprayed or brushed on surfaces, it leaves a thin film with excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Used as a release agent in plastics and rubber industry as well as for maintenance of plastic parts.

Viscosity 40°C : 40 mm<sup>2</sup>/s  
Density 40°C : 910 kg/m<sup>3</sup>  
Flash Point COC : 290 °C  
Pour point : -18 °C

## **MOLYDUVAL Emulator KMP Spray**

### **Separating Agent for Thermoplastics**

A silicone free release and lubrication agent for rubber, plastics and many types of resins. When sprayed or brushed on surfaces, it leaves a thin film with excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Used as a release agent in plastics and rubber industry as well as for maintenance of plastic parts.

Base Fluid : Paraffin  
Viscosity 40°C : 17 mm²/s  
Density 40°C : 880 kg/m³

## **MOLYDUVAL Emulator SM Spray**

### **Separating Agent for Thermoplastics**

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 40°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

## **MOLYDUVAL Emulator Spray**

### **Separating Agent for Thermoplastics**

A silicone free release and lubrication agent for rubber, plastics and many types of resins. When sprayed or brushed on surfaces, it leaves a thin film with excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Used as a release agent in plastics and rubber industry as well as for maintenance of plastic parts.

Base Fluid : Ester  
Density 40°C : 920 kg/m³

## **MOLYDUVAL Emulator X Spray**

### **Separating Agent for Thermoplastics**

A mold release agent for rubber, EVA, and thermosetting resins. It provides a durable film capable of giving many releases per application and will not contaminate the released surface. Special additives permit the release of very tacky rubber mixtures.

Base Fluid : Ester  
Density 40°C : 920 kg/m³

## **MOLYDUVAL Ferroxin DE Spray**

### **Biodegradable Wire Rope Spray**

A modern preservation and care spray for wire ropes, penetrates the rope and lubricates the strands, forming an adhesive, oily layer on the surface of the wire rope. The selection of special, highly effective raw

Basis : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm²/s  
Viscosity 100°C : 8 mm²/s  
Viscosity Index : 125

materials ensures good adhesion, homogeneity and uniformly thick film formation.

Density 40°C : 950 kg/m³  
Temperature Range : -40 -> 270 °C  
Pour point : -46 °C

## **MOLYDUVAL Ferroxin DEC Spray**

### **Biodegradable Chain and Wire Rope Grease**

A highly adhesive, biodegradable lubricating and anti-corrosion grease for chains and wire ropes in rough operation. It forms a well adhering, greasy, graphitized coating with very good water resistance. Contains solid lubricants that reduce friction and reduce the risk of fretting corrosion.

Density 15°C : 1000 kg/m³  
Temperature Range : -30 -> +150 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : > 4000 N  
solids : Graphite --

## **MOLYDUVAL Ferroxin DEZ Spray**

### **Biodegradable Wire Rope Grease**

A highly adhesive grease and anti-corrosive grease for roping ropes. It forms a well-adhering, greasy, graphite coating with very good water resistance. Contains lubricants that reduce friction and reduce the risk of tribocorrosion.

Base Fluid : Ester  
Name : MPFE1,5  
Density 15°C : 1100 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade

## **MOLYDUVAL Ferroxin DS Spray**

### **Wire Rope Spray**

A solvent containing, wax base, cutback corrosion preventive compound for protection and lubrication wire ropes. It forms a dry wax like film which is firm, amber, translucent and non-tacky. It combines the basic requirements of good adhesion, protection and lubrication.

Density 40°C : 860 kg/m³  
Flash Point COC : 40 °C  
Drying Time 20°C, griffest : 60 min  
Productiveness : 13 m²/l  
Corrosion Protection humidity chamber : 500 h  
Corrosion Protection Salt Spray Test : 192 h

## **MOLYDUVAL Ferroxin R 40 Spray**

### **Multi Function Spray**

A light colour penetrating and corrosion preventive oil. Special usable for loosening, lubricating and preserving tools, screws, machine parts of all kind, also as rust removing and rust protecting agent.

Base Fluid : Min  
Density 15°C : 830 kg/m³  
Temperature Range : -30 -> +80 °C  
Pour point : -60 °C  
Flash Point COC : 63 °C

## **MOLYDUVAL Ferroxin RB Spray**

### **Biodegradable Rust Remover & Lubricant**

A biodegradable ester fluid with a special composition, displaces moisture, protects against corrosion, dissolves rust and lubricates. Prevents the corrosion of metals under a wide variety of corrosion conditions while at the same time lubricating friction surfaces. Penetrates and loosens rusted locks, hinges, bolts, etc.

Base Fluid : Ester  
Density 40°C : 920 kg/m³



## MOLYDUVAL Ferroxin Spray

### Multi Function Spray

A light colour penetrating and corrosion preventive oil. Special usable for loosening, lubricating and preserving tools, screws, machine parts of all kind, also as rust removing and rust protecting agent.

Base Fluid : Min  
Density 15°C : 830 kg/m<sup>3</sup>  
Temperature Range : -30 -> +80 °C  
Pour point : -60 °C  
Flash Point COC : 63 °C

Density 15°C : 890 kg/m<sup>3</sup>  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 160 °C  
Dropping Point : no °C

## MOLYDUVAL Ferroxin T Spray

### Multi Functional Spray with PTFE

A light colour, adhesive penetrating and corrosion protection spray with PTFE. Special useful for lubricating and preserving tools, screws, machine parts. It contains finest PTFE powder for reducing friction, increasing load capacity and offering emergency lubrication.

Base Fluid : Mineral  
Viscosity Class : 22 ISO-VG  
Viscosity 40°C : 22 mm<sup>2</sup>/s  
Density 15°C : 880 kg/m<sup>3</sup>  
Temperature Range : -30 -> +80 °C  
Content additives : PTFE %

Base Fluid : Min  
Name : ISO-L-XBCIB2  
Name : KP2K-30  
Viscosity Base Fluid, 40°C : 800 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 130 °C  
Dropping Point : 150 °C  
Utility Time 02-A/1500/6000-120 : > 100 h  
Water Resistance Static : 0-90 Grade  
Wear Protection Radlagertest : OK Grade  
Wear Protection VKA welding load : 2600 N  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade  
Corrosion Protection copper : 1-100 Grade

## MOLYDUVAL Freeze HFE Spray

### Unflammable Freeze Spray

An locates immediately errors on circuit boards, TV-sets, radios etc., it cools down diodes, transistors, resistors etc. to -50°C. In addition it is very protective against heat-damage when welding. It evaporates totally. Tuned circuits will not be affected, and it leaves behind no remnants.

## MOLYDUVAL Hymol Spray

### Purest Molybdenum Disulphide

A fast drying extreme pressure spray based on MoS<sub>2</sub>. It will be used for service-free dry lubrication under heavy load, but low speed. It sticks well to surfaces and will then be used as dry lubricant when liquid lubricants are not sufficient enough because of great heat or cold or other unfavourable operating conditions. Useful for extreme loads, high pressure and temperatures. Reduces friction and wear.

Density 40°C : 4800 kg/m<sup>3</sup>  
Temperature Range : -185 -> +450 °C  
Temperature Range : 650 °C  
Unit : 400 ml  
Fineness Ø : ca 0,3 µm

## MOLYDUVAL Long-Life T Spray

### Grease Spray with PTFE

A high-quality, very water-resistant high-pressure grease for the long-term lubrication of rolling and plain bearings under extreme loads. The particularly good water resistance lies in a very special complex soap, which also offers a very good temperature resistance. The grease contains PTFE to improve pressure resistance and reduce friction.

Base Fluid : Mineral  
Thickener : AlK  
Name : KPF2N-30  
Density 15°C : 930 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0 Grade

## MOLYDUVAL Mona-Lisa Spray

### Safety Grease with MoS<sub>2</sub>

A friction-reducing high pressure grease with MoS<sub>2</sub> for heavy-duty lubrication points. It protects against friction and wear, it still keeps its smooth structure even in unfavourable working conditions. Oxidation- and corrosion protection additives guarantees long using times and reliable corrosion protection.

Molybdenum Disulphide provides extra protection against friction and wear. The MoS<sub>2</sub> smooth surfaces and improves pressure load.

Base Fluid : Min  
Name : ISO-L-XCCEB2  
Name : KFP2K-30  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -30 -> +130 °C  
Temperature Range shortly up to : 150 °C  
Oxidation resistance 100h 99°C : < 35 kPa  
Dropping Point : 190 °C  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Oil Separation 18h 40°C : 5 %  
Water Resistance Static : 1-90 Grade  
Wear Protection Timken EP test : 55 lbs  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 Grade

## MOLYDUVAL Leak Detector Spray

### Leak Detector Spray

A non-flammable, operational to -30°C, non-corrosive and high visibility spray for detecting gas leaks. For the reliable tracing of leaks in compressed air piping, non-flammable, not harmful to skin, non-corrosive.

Density 40°C : 1000 kg/m<sup>3</sup>  
Flash Point COC : > 300 °C

## MOLYDUVAL Long-Life MP Spray

### UNiversal Grease Spray

A light-colour grease with exceptional water resistance for lubrication of sleeve bearings and slides.

Base Fluid : Mineral  
Name : KP2K-20  
Viscosity Base Fluid, 40°C : 220 mm<sup>2</sup>/s

## MOLYDUVAL Moralub TZ Spray

### Synthetic Metal Working Spray

A synthetic metalworking oil in the spray can, based on synthetic hydrocarbons and strong polar active substances. For normal to

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity Index : 150

difficult non-cutting metal forming. Preventing wear, increases the tool life, lowers tooling expenses, applicable for rust-and acid-proof steel sheets and steel sheets in deep-drawing quality.

Density 15°C : 970 kg/m<sup>3</sup>  
Temperature Range : -20 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -27 °C  
Unit : 400 ml

## MOLYDUVAL Moralub TZH Spray

### Synthetic Metal Working Spray

A synthetic metalworking oil in the spray can, based on synthetic hydrocarbons and strong polar active substances. For normal to difficult non-cutting metal forming. Preventing wear, increases the tool life, lowers tooling expenses, applicable for rust-and acid-proof steel sheets and steel sheets in deep-drawing quality.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Moralub TZL Spray

### Synthetic Metal Working Spray

A synthetic low viscous metalworking oil in the spray can, based on synthetic hydrocarbons and strong polar active substances. For normal non-cutting metal forming. Preventing wear, increases the tool life, lowers tooling expenses, applicable for rust-and acid-proof steel sheets and steel sheets in deep-drawing quality.

Basis : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 990 kg/m<sup>3</sup>  
Temperature Range : -30 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -36 °C

## MOLYDUVAL Moralub TZM Spray

### Synthetic Metal Working Spray

A synthetic metalworking oil in the spray can, based on synthetic hydrocarbons and strong polar active substances. For normal to difficult non-cutting metal forming. Preventing wear, increases the tool life, lowers tooling expenses, applicable for rust-and acid-proof steel sheets and steel sheets in deep-drawing quality.

Base Fluid : Ester  
Viscosity Class : 150220 ISO-VG  
Viscosity Index : 150  
Density 15°C : 960 kg/m<sup>3</sup>  
Temperature Range : -20 -> +270 °C  
Flash Point COC : 280 °C  
Pour point : -27 °C  
Unit : 400 ml

## MOLYDUVAL NoRost Spray

### Multi-Purpose-Lubricant with MoS<sub>2</sub>

A penetrating and corrosion preventive oil with MoS<sub>2</sub>. Special usefull for loosening, lubricating and preserving tools, screws, machine parts of all kind, also as rust removing and rust protecting agent.

Base Fluid : Min  
Viscosity 40°C : 2 mm<sup>2</sup>/s  
Density 40°C : 800 kg/m<sup>3</sup>  
Flash Point COC : 72 °C  
film type : oily

## MOLYDUVAL Orgon P Spray

### Parting Spray for Welding

Helps keep both mig & tig gun nozzles from clogging. Extends the life of welding tips. Helps provide cleaner & neater welds. Eliminates need for chipping, grinding or scraping off weld spatter. Prevents damage to the surrounding surface caused by flying weld spatter. Allows surfaces to be painted

Density 40°C : 920 kg/m<sup>3</sup>

after welding. Allow easy removal of weld spatter from metal surfaces. Used by industrial plants, steel mills, ship yards, metal fabricating, robotic welding, maintenance companies & auto body shops.

## MOLYDUVAL Orgon U Spray

### Non Flammable Welding Spray

Helps keep both mig & tig gun nozzles from clogging. Extends the life of welding tips. Helps provide cleaner & neater welds. Eliminates need for chipping, grinding or scraping off weld spatter. Prevents damage to the surrounding surface caused by flying weld spatter. Allows surfaces to be painted after welding. Allow easy removal of weld spatter from metal surfaces. Used by industrial plants, steel mills, ship yards, metal fabricating, robotic welding, maintenance companies & auto body shops. Contains non flammable gaz.

Basis : Ester, native  
Viscosity 40°C : 1,6 mm<sup>2</sup>/s  
Density 15°C : 990 kg/m<sup>3</sup>  
Propulsant : Stickstoff

## MOLYDUVAL Pegasus Cleaner Spray

### Cleaner for fluorinated greases

A cleaner for bearings and tools sticked with rests of perfluorinated greases. Also it is suitable for removing greases, oils, oxides, silicones, flux, carbon, dirt, smoke film and grime.

Offers high solution and top cleaning properties, has good creeping tendency and removes oil, resin, and other hard residues. It evaporates very quickly and without residue and forms a clean and dry surface.

Basis : HFE  
Density 40°C : 1500 kg/m<sup>3</sup>  
Propulsant : R134a

## MOLYDUVAL Penetrant B Spray

### Penetrant Spray for Crack Detection

Penetration Spray for non-destructive inspection systems (NDT) suitable for fast reliable visual detection of cracks or flaws. Finds speedy and sure cracks in metal which would normally not be visible by eyes. Usually there should be used 3 sprays one after the other. First MOLYDUVAL Cleaner Spray, then MOLYDUVAL Penetrant B Spray, and latter MOLYDUVAL Developer C Spray.

Unit : 500 ml

## MOLYDUVAL Polypan LKA Spray

### Plastics Compatible Grease Spray

This multi-purpose PAO based grease is excellent for use in a wide variety of applications, especially where plastic compatibility is desired with the protection and wear prevention characteristics of a synthetic. Long life, wide temperature range, and waterproof characteristics. Use in sliding bearings, anti-friction bearings, etc.

Base Fluid : PAO  
Name : ISO-L-XDDHB2  
Name : KPHC2N-40  
Viscosity Base Fluid, 40°C : 100 mm<sup>2</sup>/s  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -40 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C

Excellent stability, Prevents rust, wide useful temperature range. Superior for wet conditions. Tacky for better adherence.

Lubricating Ability 02-SKF-R2F 160°C : pass  
Lubricating Ability 02-SKF-R2F 160°C : pass  
Water Resistance Static : 0-90 Grade  
Corrosion Protection Emcor, WWO, distilled water : 0/0 Grade  
Corrosion Protection copper : 1 b Grade

## MOLYDUVAL Prometheus CAZ Spray

### White Tacky Cog Wheel Spray

White adhesive grease for open, slow-running gear drives, slewing rings, chains, wire ropes and similar applications where a strongly adhesive grease is required. A special soap and chemical EP additives ensure a good lubricating effect. After the contained solvent has evaporated, a well-adhering film of grease forms on the surface of the work piece. In addition to relatively good resistance to hot and cold water, cooling and cutting fluids, and rinsing water, it offers good wear protection.

Base Fluid : Min + Ester  
Name : ISO-L-XCCIB1  
Name : MPFE2K-30  
Consistency Class NLGI : 2  
Density 15°C : 1200 kg/m<sup>3</sup>  
Temperature Range : -30 -> +120 °C  
Temperature Range shortly up to : 150 °C  
Oil Separation 168h (7d) 40°C : 0,8 %  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 10000 N

## MOLYDUVAL Prometheus CLEC Spray

### Biodegradable Cog Wheel Spray

Black biodegradable adhesive grease for open, slow-running gear drives, slewing rings, chains, wire ropes and similar applications in which a strongly adhesive grease is required. Good lubrication is guaranteed by a special soap and chemically active EP additives. After the solvent contained has evaporated, a firmly adhering film of grease forms on the surface of the workpieces. In addition to relatively good resistance to hot and cold water, cooling and cutting fluids, rinsing water, it offers good wear protection.

Base Fluid : Ester  
Name : MPFE1,5  
Density 15°C : 1200 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 4200 N

## MOLYDUVAL Prometheus I Spray

### Open Gear Spray

A tacky cog wheel compound developed for open, slow running cog wheels, gears and turnstiles, for chains and wire ropes. Best lubrication is guaranteed by solid lubricants and EP additives. After evaporation of the solvent there will be a tacky and nearly dry but elastic lubricant film, that will be stable even by strong influence of water or dust.

Base Fluid : Min  
Name : BC-V  
Density 15°C : 1050 kg/m<sup>3</sup>  
Temperature Range : -25 -> + 300 °C  
Water Resistance Static : 0-90 Grade

## MOLYDUVAL Prometheus MHV Spray

### Heavy Duty Oil Spray with MoS2

A very special tacky oil spray combination with excellent corrosion protection, and wear protection. Friction coefficient will be reduced. Performance is assured by excellent film forming capabilities. Molybdenum Disulphide provides extra protection against friction and wear. The

Base Fluid : Syn  
Temperature Range : -25 -> + 150 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C

MoS2 smooth surfaces and improves pressure load.

## MOLYDUVAL Prometheus OR Spray

### Biodegradable Cog Wheel Spray

A biodegradable, tacky cog wheel compound developed for open, slow running cog wheels, gears and turnstiles, for chains and wire ropes. Best lubrication is guaranteed by a very high content of EP additives. After evaporation of the solvent there will be a tacky and nearly dry but elastic lubricant film, being stable even at strong influence of water or dust. EP additives protect the metal surface.

Base Fluid : Ester  
Name : MPFE1,5  
Density 15°C : 1200 kg/m<sup>3</sup>  
Temperature Range : -20 -> +120 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade  
Wear Protection VKA welding load : 10.000 N

## MOLYDUVAL Prometheus Z Spray

### Open Cog Wheel Spray

Gear compound with high adhesion for open, slow-running gear drives and wire ropes. Good lubrication is ensured by a very special double-complex soap and chemically active EP additives. On the tooth surface, an adhering lubricating film is formed, which is retained even under strong weather conditions. This gearwheel spray does not require the otherwise commonly used solid lubricants graphite or MoS2. The similarly good wear protection is achieved here by a special, chemically effective soap structure.

Base Fluid : Min  
Thickener : Complex  
Name : ISO-L-XCDIB0  
Name : OGP0N-30  
Viscosity Base Fluid, 40°C : 800 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 43 mm<sup>2</sup>/s  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Wear Protection VKA wear scar : 0,5 mm  
Wear Protection VKA welding load : 7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0 Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Quick GN Spray

### Metal-Free High Temperature Paste

An extrem pressure lubrication paste for lubrication at high temperatures and pressures. Also used as running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will be possible. The solid lubricant grafit protects against wear, running-in defects and guarantees good antifrictional properties. Much used for screws in refineries and power plants.

Base Fluid : PAO  
Name : MPF2R-50  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Quick Spray

### MoS2 Assembly and Multipurpose Paste

A MoS2 - Paste for lubrication at extreme load (high pressures, high temperatures). It is also used as a running-in, assembly and multi-purpose paste. It reduces friction and wear, assembly and disassembly will go easier. The solid lubricant MoS2 protects against wear, run-ning-in defects and guarantees good antifrictional properties.

Base Fluid : Min  
Name : MFLPF1U-30  
Density 40°C : 1700 kg/m<sup>3</sup>  
Temperature Range dry lubrication, solid lubrication : 450 °C  
Dropping Point : no °C  
Water Resistance Static : 0-90 Grade  
Wear Protection VKA welding load : 5000 N  
Fineness Ø, MoS2 : 2,0 µm



## MOLYDUVAL Rabilub OEL Spray

### Biodegradable Lubrication Oil

Biodegradable lubrication oil developed with the environmental hazards of oil disposal in mind. Made from a combination of special refined synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality antiwear and hydraulic oil, it's intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications designed for premium anti-wear lubrication oils.

Base Fluid : Ester  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm<sup>2</sup>/s  
Density 40°C : 960 kg/m<sup>3</sup>

## MOLYDUVAL Saturn Spray

### Grinding Fluid Spray

Grinding Fluid Spray prevents clogging of the grinding belt by fine abrasive dust. The belt should be sprayed with approx. 15 cm distance.

Density 40°C : 865 kg/m<sup>3</sup>  
Unit : 400 ml  
Propulsant : Propan + Butan

## MOLYDUVAL Sekorex 46 Spray

### Synthetic Chain Lubricant Spray

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity 100°C : 8 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -40 -> 270 °C  
Pour point : -46 °C

## MOLYDUVAL Sekorex B Spray

### Biodegradable Chain Lubricant

Was developed with the environmental hazards of oil disposal in mind. It is made from a combination of special refined native and synthetic ester fluids rated as being grater than 90% biodegradable, as measured by the Coordinating European Council Test Method CEC L-33-T-82 test after 21 days on test. As premium quality synthetic chain oil it is intended to replace mineral oils previously used in forestry and mining applications. It satisfies the requirements of many applications.

Base Fluid : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity Index : 190  
Density 40°C : 900 kg/m<sup>3</sup>  
Pour point : -20 °C  
Flash Point COC : 290 °C  
Wear Protection VKA welding load : 1400 N

## MOLYDUVAL Sekorex DW 0 Spray

### Synthetic Chain Grease Spray

A white, strongly adhesive, solid-containing lubricating grease, specially developed for highly stressed chains. Has very good water-repellent properties and is extremely suitable for wet chains. The contained combination of white solids offers corrosion protection and pressure resistance, the synthetic carrier oil offers good temperature stability, the solids also offer emergency running properties.

Base Fluid : PAO  
Density 40°C : 990 kg/m<sup>3</sup>  
Temperature Range : -30 -> +250 °C  
Temperature Range dry lubrication, solid lubrication : 1000 °C  
Fineness Ø : 0,35 µm

## MOLYDUVAL Sekorex ED Spray

### Synthetic Chain Drive Pin Lubricant Spray

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Base Fluid : Ester  
Name : EHCP15  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm<sup>2</sup>/s  
Viscosity Index : 170  
Density 40°C : 880 kg/m<sup>3</sup>  
Temperature Range : -60 -> +150 °C  
Pour point : -69 °C  
Flash Point COC : 200 °C

## MOLYDUVAL Sekorex ETT Spray

### Synthetic Chain Lubricant Spray

Lubricant with PTFE for high loads, suitable for chains, hinges, joints, wire parts, etc. Penetrates very well in chains and wire ropes. In addition to excellent high-temperature stability, it offers very good wear protection and good corrosion protection.

Basis : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity Index : 150  
Density 20°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> 230 °C  
Pour point : < -27 °C

## MOLYDUVAL Sekorex H Spray

### Synthetic Chain Lubricant Spray

A 100% synthetic ester based, very tacky lubrication oil for high temperature chains. Besides of it's excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low.

Base Fluid : Ester  
Name : ELP680  
Viscosity Base Fluid, 40°C : 680 mm<sup>2</sup>/s  
Density 40°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +260 °C

## MOLYDUVAL Sekorex IL Spray

### Chain Drive Pin Lubricant

A high treated low viscosity penetrating oil for chains. Penetrates between the close clearance of the chain drive bushings and

Density 15°C : 830 kg/m<sup>3</sup>  
Temperature Range : -30 -> +80 °C  
Pour point : -60 °C



pins to provide lubrication. For chains in assembly lines, machinery, fork lifts, conveyers.

Flash Point COC : 63 °C

## MOLYDUVAL Sekorex ILM Spray

### Heavy Duty Low Viscous Lubricant for Chains

High treated lubrication oilspray for chains, especially for heavy dutied or outside door chains. Because of its good creeping characteristics it penetrates very good into the chain bolts and reduces wear. Molybdenum Disulphide provides extra protection against friction and wear. The MoS<sub>2</sub> smooth surfaces and improves pressure load.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 126 mm<sup>2</sup>/s  
Viscosity 100°C : 13 mm<sup>2</sup>/s  
Viscosity Index : 100/150  
Density 40°C : 930 kg/m<sup>3</sup>  
Temperature Range : -20 -> 120 °C  
Pour point : -21 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Sekorex K Spray

### Synthetic High Temp Chain Lubricant Spray

A 100% synthetic polyol ester based, high treated lubrication oil for high temperature chains. Besides of its excellent high temperature stability it guarantees excellent wear protection and good corrosion protection. Qualified for chains and even suitable for bearings, slides and sliding surfaces at high temperatures. In case of very high temperatures it forms only less residues, and evaporates low. This is simply one of the best MOYLDUVAL high temp chain lubes. It is manufactured from unique high temperature polyol ester base fluids unavailable elsewhere.

Basis : Ester  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 220 mm<sup>2</sup>/s  
Viscosity 100°C : 25 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 970 kg/m<sup>3</sup>  
Temperature Range : -20 -> 270 °C  
Flash Point COC : 280 °C  
Pour point : -27 °C

## MOLYDUVAL Sekorex LCM Spray

### Heavy Duty Chain Grease Spray

A very special, well-adhering chain grease, specially developed for highly stressed chains. Has very good high pressure properties and extreme wear protection, making the product ideal for heavily loaded, mainly large chains. Due to its highly water-repellent properties, it is also suitable for chains in damp areas or for outdoor use.

Base Fluid : Min  
Thickener : Complex  
Name : ISO-L-XCDIBO  
Name : OGP0N-30  
Viscosity Base Fluid, 40°C : 800 mm<sup>2</sup>/s  
Viscosity Base Fluid, 100°C : 43 mm<sup>2</sup>/s  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -30 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Dropping Point : 260 °C  
Wear Protection VKA wear scar : 0,5 mm  
Wear Protection VKA welding load : 7500 N  
Corrosion Protection Emcor, WWO, distilled water : 0-0  
Grade  
Corrosion Protection Copper 24h 100°C : 1b Note

## MOLYDUVAL Sekorex MHV Spray

### Tacky Chain Lubricant Spray

A very tacky, high treated lubrication oilspray for chains, especially for outside door chains. Because of its good creeping characteristics it penetrates very good into the chain bolts and reduces wear. O-Ring compatible.

Base Fluid : Min  
Name : CLP4600  
Viscosity 40°C : 4600 mm<sup>2</sup>/s  
Density 15°C : 910 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 140 °C

Contains tackifiers for better adhesion on fast running chains.

## MOLYDUVAL Sekorex MHVC Spray

### Tacky Chain Lubricant Spray with Graphite

An very adhesive chain lubricant for very high loaded, slow running chains. Because of its good water resistance and oxidation stability it is even useful under corrosive conditions. It is a black grease containing graphite for reduced friction and emergency run properties.

Base Fluid : Mineral  
Temperature Range : -20 -> + 140 °C  
Temperature Range dry lubrication, solid lubrication : 700 °C

## MOLYDUVAL Sekorex NAS Spray

### Tacky Chain Lubricant Spray

A very tacky, high treated lubrication oilspray for chains, especially for outside door chains. Because of its good creeping characteristics it penetrates very good into the chain bolts and reduces wear. O-Ring compatible. Contains tackifiers for better adhesion on fast running chains.

Base Fluid : Min  
Name : CLP1000  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 140 °C

## MOLYDUVAL Sekorex Non Tox Spray

### Chain Fluid Spray for Food Industry

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared Polyalphaolefines (PAO) it is miscible with mineral oils, has a good seal compatibility, and a top high temperature stability, and excellent wear protection.

Base Fluid : PAO  
Name : CLPHC460  
Viscosity 40°C : 460 mm<sup>2</sup>/s  
Density 15°C : 920 kg/m<sup>3</sup>  
Temperature Range : -30 -> +200 °C

## MOLYDUVAL Sekorex PLX Spray

### Synthetic Chain Lubricant with MoS<sub>2</sub>

An very adhesive chain lubricant for very high loaded, slow running chains. Because of its good water resistance and oxidation stability it is even useful under corrosive conditions. It is a black grease containing the solid molybdenum disulphide for reduced friction and emergency run properties.

Base Fluid : Syn  
Temperature Range : -25 -> + 200 °C  
Temperature Range dry lubrication, solid lubrication : 450 °C

## MOLYDUVAL Silikon 2200 Spray

### High Viscosity Silicone Spray

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

Base Fluid : Silicon  
Viscosity Base Fluid, 40°C : 2200 mm<sup>2</sup>/s  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

## MOLYDUVAL Silikon 2200 V Spray

### High Viscosity Silicone Spray

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

Base Fluid : Silicon  
Viscosity Base Fluid, 40°C : 2200 mm²/s  
Density 40°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

## MOLYDUVAL Silikon 68 Spray

### Low Viscosity Silicone Spray

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

Viscosity 40°C : 70 mm²/s  
Viscosity 100°C : 28 mm²/s  
Viscosity 25°C : 100 mm²/s  
Density 40°C : 950 kg/m³  
Flash Point PMCC : 321 °C  
Pour point : - 65 °C  
Refractive Index 25°C : 1,404  
Dielectric Constant : 2,7  
Dielectric Strength : 30 kV  
Heat Conductivity 20°C : 0,16 W/(K·m)  
Heat Extension Coefficient : 0,96 10E-3-KE-1  
Surface Tension 20°C : 22 mN/m

## MOLYDUVAL Silikon 68 V Spray

### Low Viscosity Silicone Spray

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

Viscosity 40°C : 75 mm²/s  
Viscosity 100°C : 30 mm²/s  
Density 40°C : 950 kg/m³  
Flash Point PMCC : 321 °C  
Pour point : -50 °C  
Refractive Index 25°C : 1,404  
Dielectric Constant : 2,7  
Dielectric Strength : 30 kV  
Heat Conductivity 20°C : 0,16 W/(K·m)  
Heat Extension Coefficient : 0,96 10E-3-KE-1  
Surface Tension 20°C : 22 mN/m

## MOLYDUVAL Silikon G Spray

### Care Release and Lubricant Agent

A release and lubrication agent for rubber, plastics and many types of resins. Also

Base Fluid : Silicon  
Density 40°C : 1000 kg/m³

Used as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, greasy silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

## MOLYDUVAL Silikon IF Spray

### Silicone Spray Inflammable

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products. Contains inflammable gas.

Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

Base Fluid : Silicon  
Density 40°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C

## MOLYDUVAL Silikon Spray

### Care Release and Lubricant Agent

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

Base Fluid : Silicon  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 40°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

## MOLYDUVAL Silikon V Spray

### Care Release and Lubricant Agent

A release and lubrication agent for rubber, plastics and many types of resins. Also useful as care and lubricant in food industry. Used also as a release agent in plastics and rubber industry as well as for welding and for maintenance and lubrication of plastic and rubber parts.

When sprayed or brushed on surfaces, it leaves a thin, oil-like silicone film that has excellent releasing and lubrication properties without having any solvent or swelling effect on the products.

Base Fluid : Silicon  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 40°C : 1000 kg/m³  
Temperature Range : -40 -> +200 °C  
Flash Point PMCC, base oil : > 250 °C

## MOLYDUVAL Silo R Spray

### Lubricant Agent for EPDM

Ein vielseitiges Gleitspray für Dichtungen und Profile, erleichtert das Einbauen von Teilen und Dichtungen, insbesondere bei Elastomeren wie z.B. EPDM. Nach Verdunstung des Treibgases verbleibt auf der Oberfläche ein dünner, schneller Trockener Gleitfilm mit niedrigen Reibwerten. Gegenüber der Verwendung von normalen Silikonsprays werden hiermit Spannungsrisse vermieden und die Teile lassen sich besser lackieren, bekleben oder bedrucken.

Base Fluid : Spezial-Polymere  
Viscosity Base Fluid, 40°C : 3 mm²/s  
Density 40°C : 960 kg/m³  
Temperature Range : -30 -> +100 °C  
Flash Point PMCC, base oil : 77 °C

## MOLYDUVAL Soraja A 1500 Spray

### Lubricant for Food Industry

A high performance very tacky synthetic lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Viscosity Class : 1500 ISO-VG  
Viscosity 40°C : 1400 mm²/s  
Viscosity 100°C : 105 mm²/s  
Viscosity Index : 170  
Density 40°C : 860 kg/m³  
Pour point : -15 °C  
Flash Point COC : 280 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Soraja A 460 Spray

### Lubricant for Food Industry

A high performance very tacky synthetic lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Name : CLPHC460  
Viscosity Index : 156  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 40°C : 850 kg/m³  
Temperature Range : -30 -> +200 °C  
Pour point : -27 °C  
Flash Point COC : 210 °C

## MOLYDUVAL Soraja A 5 Spray

### Universal Lubricant for Food Industry

A high performance synthetic versatile lubricant for applications where incidental contact with foodstuff may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Name : CLPHC5  
Viscosity Class : 5-10 ISO-VG  
Viscosity 40°C : 7,5 mm²/s  
Viscosity 100°C : 1,2 mm²/s  
Density 40°C : 800 kg/m³  
Pour point : -73 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Soraja AE 220 Spray

### Lubrication Oil For Food Industry

A special synthetic oil spray for lubrication of bearings, chains, hinges, slides throughout the food industry. Is good creep properties, penetrates into narrow gaps and cracks, then lubricates and protects against corrosion.

Base Fluid : PAO  
Viscosity Class : 220 ISO-VG  
Viscosity 40°C : 240 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -30 -> 130 °C

Provides excellent wear protection and good high-temperature stability based on synthetic hydrocarbons.

Pour point : -36 °C

## MOLYDUVAL Soraja AKMT Spray

### Grease Spray for Food Industry

A white color lubrication grease in aerosol cans - for bearings, chains, wire ropes, and other lubrication points in case of high pressures or other unfavourable conditions. Very water resistant and long-time stable. The containing combination of synergetic white colour solid lubricants offers protection from tribocorrosion and increases wear resistance. Suitable for Food Industry. Based on modern food grade base stocks in combination with a proofed thickener and additives it is absolutely food grade (USDA H1).

Base Fluid : paraffine oil  
Thickener : AlK  
Name : KPF2K-20  
Viscosity 40°C : 130 mm²/s  
Density 15°C : 930 kg/m³  
Temperature Range : -20 -> +140 °C  
Temperature Range shortly up to : 180 °C  
Temperature Range dry lubrication, solid lubrication : 200 °C  
Dropping Point : 250 °C  
Water Resistance Static : 0 Grade

## MOLYDUVAL Soraja AKMZ Spray

### Grease Spray for Food Industry

Virtually odourless and tasteless spray grease. It is made with a white mineral oil and an aluminium complex soap thickener. Extreme care is taken throughout the manufacture to protect its purity. If any incidental contact with food occurs, the grease will not affect the colour, odour, or taste of the product.

Contains an FDA approved oxidation inhibitor which gives high stability against chemical changes. It also contains rust inhibitor protecting bearings and metal surfaces subjected to wet conditions, humidity, water washing, steam. It also protects during periods of machine idleness. It resist water washout and provides a sealing of the bearing against entrance of water, or fruit and vegetable juices. Because it is compatible with beverages and food juices, it maintains his consistency. And because it is shear-stable, it also maintain its consistency when it is severely worked in the bearing.

Base Fluid : White Oil  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Density 15°C : 1000 kg/m³  
Temperature Range : -20 -> +120 °C  
Temperature Range shortly up to : 140 °C  
Oxidation resistance : < 35 kPa  
Dropping Point : 265 °C  
Lubricating Ability 02-SKF-R2F 120°C : pass  
Water Resistance Static : 1-90 Grade  
Water Resistance Static : 0 Grade  
Wear Protection VKA wear scar : 0,7 mm  
Wear Protection VKA welding load : 6000 N  
Corrosion Protection copper : 1b Grade

## MOLYDUVAL Soraja BAT Spray

### Grease Spray for Food Industry

A light colour, synthetic PAO based, waterproofed, non dropping, multi purpose grease for bearings and gears. It offers extreme good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGIB2  
Name : KPFFHC2S-20  
Viscosity Base Fluid, 40°C : 460 mm²/s  
Density 15°C : 900 kg/m³  
Temperature Range : -20 -> +200 °C  
Temperature Range shortly up to : 220 °C  
Dropping Point : -- °C  
solids : PTFE --

## MOLYDUVAL Soraja Belt Spray

### Spray for Belt Drives

Care and anti-slip spray to prevent slippage on drive belts and to secure packaging on pallets and conveyor belts in the food industry.

Basis : HV Hydrocarbon

## MOLYDUVAL Soraja BM Spray

### Lubricant for Food Industry

A translucent grease for bearings, chains, wire ropes, and other industrial equipment in food industry. Very water resistant and long-term stable. Based on modern food grade base stocks in combination with a proofed thickener and additives it is absolutely food grade (USDA H1).

Base Fluid : Paraffin  
Name : KP2K-20  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +140 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja BMZ Spray

### Grease Spray for Food Industry

A light colour, waterproofed, non dropping, multi purpose grease for bearings and gears with excellent corrosion protection and extremely good water resistance. May be used for lubrication points in food industry, because all components conform to the regulations of USDA H1.

Base Fluid : Paraffin  
Name : ISO-L-XBCEB2  
Name : KPF2K-20  
Viscosity Base Fluid, 40°C : 220 mm²/s  
Density 15°C : 890 kg/m³  
Temperature Range : -20 -> +120 °C  
Dropping Point : no °C

## MOLYDUVAL Soraja CL Spray

### Food Grade Cleaner Spray

A relative environmentally friendly cleaner for maintenance, repair, and assembly, for degreasing parts and tools in Food industry. Removes grease, grit and grime from most surfaces.

It can be supplied to meet the requirements of the US Food and Drug Administration (FDA) specifications published in the code of Federal Regulations Chapter 21, Subchapter B, Parts 172.882 Synthetic isoparaffinic petroleum hydrocarbons.

In the froth-flotation cleaning of vegetables  
178.3530 Isoparaffinic Solvents  
172.884 Odorless Light Petroleum Hydrocarbons For Cleaning in Direct Food Contact Applications

178.3620 Technical White Mineral Oil

178.3650 Odorless Light Petroleum Hydrocarbons

and the medical use requirements of the German DAB 10.

Users should make their own assessment of compliance with the relevant regulation.

Base Fluid : HC  
Viscosity 25°C : 1,6 mm²/s  
Density 40°C : 750 kg/m³  
Flash Point COC : 44 °C

## MOLYDUVAL Soraja CLD Spray

### Air Pressure Spray

Compressed air spray for dust removal and for blowing out dust and dirt during repair work, e.g. on electronic assemblies, switches, insulators, clocks or seals.

Filling Volume : 400 ml

## MOLYDUVAL Soraja CUT Spray

### Cutting Fluid Spray for Food Industry

A cutting agent in the spray can, used for normal to difficult metalworking in the food industry. Excellent for the machining of high-alloy steels.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm²/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m³  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Soraja Q Spray

### White Assembly Paste for Food Industry

A Food Grade paste for lubrication at extreme loads (high pressures, high temperatures). Also used as a running-in, assembly and multi purpose paste. Reduces friction, wear and seizure, assembly and disassembly goes easier. The solid lubricants protect against wear, running-in defects and offers good antifrictional properties. Mostly used for screws or nuts. Conforms to USDA H1.

Base Fluid : PAO  
Name : ISO-L-XBGE1,5  
Name : MPF1,5-30  
Temperature Range : -30 -> +1160 °C  
Dropping Point : without °C  
Fineness Ø : < 1 µm

## MOLYDUVAL Soraja REA Spray

### Universal Lubricant for Food Industry

Low-viscosity, odorless and tasteless food lubricating oil based on synthetic esters, suitable as a release agent for molds and surfaces that may come into contact with foodstuffs. Applicable as a lubricant in the food, pharmaceutical or cosmetics industry, when contact of the lubricant with product or packaging may happen accidentally.

Base Fluid : Ester  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 15 mm²/s  
Density 40°C : 950 kg/m³  
Flash Point COC : > 150 °C

## MOLYDUVAL Soraja RM 15 Spray

### Universal Lubricant for Food Industry

Odorless and tasteless, food-safe paraffin oil, suitable as a release agent for shapes and surfaces that can come into contact with food. Can be used as a release agent and lubricant in the food, pharmaceutical or cosmetics industry if the lubricant can accidentally come into contact with the product or packaging.

Base Fluid : Paraffinic  
Viscosity Class : 15 ISO-VG  
Viscosity 40°C : 16 mm²/s  
Viscosity 100°C : 3,6 mm²/s  
Density 40°C : 850 kg/m³  
Pour point : -24 °C  
Flash Point COC : 195 °C



## **MOLYDUVAL Soraja RM 68 Spray**

### **Universal Lubricant for Food Industry**

Odorless and tasteless, food-safe paraffin oil, suitable as a release agent for shapes and surfaces that can come into contact with food. Can be used as a release agent and lubricant in the food, pharmaceutical or cosmetics industry if the lubricant can accidentally come into contact with the product or packaging.

Base Fluid : Min  
Viscosity Class : 68 ISO-VG  
Viscosity 40°C : 68 mm<sup>2</sup>/s  
Density 40°C : 900 kg/m<sup>3</sup>  
Flash Point COC : > 150 °C

## **MOLYDUVAL Soraja T Spray**

### **Lubricant for Food Industry**

A high performance versatile lubricant spray for applications where incidental contact with foodstuffs may occur, or where a clean, non-toxic lubricant is preferred. The used base fluids are released to DAB/FDA/USDA as well as the containing corrosion protective and wear protective additives.

Base Fluid : PAO  
Viscosity Class : 22 ISO-VG  
Viscosity Index : 130  
Density 40°C : 870 kg/m<sup>3</sup>  
Temperature Range : -30 -> +160 °C  
Temperature Range solid lubrication : -180 - +260 °C  
Pour point : -40 °C  
Flash Point COC : 250 °C  
Content PTFE : 3 %

## **MOLYDUVAL Soraja TLM Spray**

### **PTFE Dry Film Lubricant for Food Industry**

An effective dry lubricant for applications under extreme conditions such as high pressures or high temperatures.

Basis : PTFE  
Temperature Range : -180 -> +240 °C  
Unit : 400 ml

## **MOLYDUVAL Soraja XE Spray**

### **Synthetic Food Grade Ester Chain Oil Spray**

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## **MOLYDUVAL Soraja XET Spray**

### **Synthetic Food Grade Ester Chain Oil Spray**

A modern, synthetic food grade chain fluid formulated for chains in Food and Pharma Industry. In comparison to chain oils based on mineral oil it offers food compatibility, that means that all components are approved by USDA and NSF. Based on Food Grade and USDA H1 cleared synthetic polyol esters it is miscible with mineral oils and offers a top high temperature stability, and excellent wear protection.

Base Fluid : Ester  
Viscosity Class : 320 ISO-VG  
Viscosity 40°C : 330 mm<sup>2</sup>/s  
Viscosity Index : 150  
Density 40°C : 1000 kg/m<sup>3</sup>  
Temperature Range : -20 -> +230 °C  
Pour point : -27 °C  
Flash Point COC : 270 °C

## **MOLYDUVAL Spray Z**

### **Open Gear Spray**

A tacky cog wheel compound developed for open, slow running cog wheels, gears and turnstiles, for chains and wire ropes. Best lubrication is guaranteed by solid lubricants and EP additives. After evaporation of the solvent there will be a tacky and nearly dry but elastic lubricant film, that will be stable even by strong influence of water or dust.

Base Fluid : Min  
Name : BC-V  
Density 15°C : 1050 kg/m<sup>3</sup>  
Temperature Range : -25 -> + 300 °C  
Water Resistance Static : 0-90 Grade

## **MOLYDUVAL Starter Spray**

### **Cold Start Spray for all Engines**

For all petrol and diesel engines to enable them to start immediately. Applies easily on the engine and battery, preventing the carburettor from becoming frozen.

Unit : 400 ml

## **MOLYDUVAL Supercut EB Spray**

### **Biodegradable Cutting Spray**

A low viscosity, strong treated heavy duty cutting fluid for difficult metal working operations. Developed for using one top cutting fluid for a wide range of cutting and forming processes and a wide range of hard and soft steels. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Basis : Ester  
Density 40°C : 960 kg/m<sup>3</sup>

## **MOLYDUVAL Supercut EB Spray**

### **Biodegradable Cutting Spray**

A low viscosity, strong treated heavy duty cutting fluid for difficult metal working operations. Developed for using one top cutting fluid for a wide range of cutting and forming processes and a wide range of hard and soft steels. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Basis : Ester  
Density 40°C : 960 kg/m<sup>3</sup>

## **MOLYDUVAL Supercut LV Spray**

### **Heavy Duty Cutting Fluid Spray**

A low viscosity, strong treated heavy duty cutting fluid for difficult metal working operations. Developed for using one top cutting fluid for a wide range of cutting and forming processes and a wide range of hard and soft steels. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Viscosity Class : 46 ISO-VG  
Viscosity 40°C : 46 mm<sup>2</sup>/s  
Viscosity 100°C : 8 mm<sup>2</sup>/s  
Viscosity Index : 125  
Density 40°C : 950 kg/m<sup>3</sup>  
Temperature Range : -40 -> 270 °C  
Pour point : -46 °C

## MOLYDUVAL Supercut Spray

### Heavy Duty Cutting Fluid Spray

A low viscosity, strong treated heavy duty cutting fluid for difficult metal working operations. Developed for using one top cutting fluid for a wide range of cutting and forming processes and a wide range of hard and soft steels. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Base Fluid : Min  
Viscosity 40°C : 68 mm²/s  
Unit : 400 ml

## MOLYDUVAL Supercut X Spray

### Heavy Duty Cutting Fluid Spray

A low viscosity, strong treated heavy duty cutting fluid for difficult metal working operations. Developed for using one top cutting fluid for a wide range of cutting and forming processes and a wide range of hard and soft steels. Is able to build up a lubricant film at high temperatures of low shear strength, that prevents a welding between workpiece and tool.

Base Fluid : Min  
Viscosity 40°C : 150 mm²/s  
Unit : 400 ml

## MOLYDUVAL Syntholube A 5 Spray

### Synthetic Lubrication Spray

A synthetic, relative good plastic compatible lubrication spray for many applications including precision engineering and high temperature applications. It has excellent low and high temperature stability, top wear protection and lubrication behaviour. It was developed for for-life lubrication of smaller lubrication points, f.egg in precision engineering or automobile industry.

Base Fluid : PAO  
Name : CLPHC5/10  
Viscosity 40°C : 8 mm²/s  
Viscosity 100°C : 2 mm²/s  
Density 40°C : 800 kg/m³  
Pour point : -73 °C  
Flash Point COC : 160 °C

## MOLYDUVAL Syntholube ET Spray

### Synthetic Lubrication Spray with PTFE

A light colour penetrating and lubrication oil with PTFE. Special usable for lubricating and preserving tools, screws, machine, chains. Contains the solid lubricant PTFE for reducing friction.

Base Fluid : Ester  
Viscosity Base Fluid, 40°C : 22 mm²/s  
Density 40°C : 900 kg/m³  
Temperature Range : -10 -> +200 °C  
Temperature Range solid lubrication : -180 -> +260 °C  
Content additives : PTFE %  
Fineness Ø : < 6 µm

## MOLYDUVAL Syntholube G Spray

### Synthetic High Temperature Oil Spray

A light-colored, polyglycol-based lubricant spray for lubricating heavily loaded machine elements, chains, wire ropes, joints. Penetrates well, creeps into the narrowest cracks and crevices, displaces water, adheres well. Has very low coefficients of friction.

Base Fluid : PG  
Name : PGLP100  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 150 mm²/s  
Viscosity Index : 146  
Density 40°C : 1000 kg/m³  
Temperature Range : -30 -> +210 °C  
Pour point : -39 °C

Flash Point COC : > 250 °C  
Lubricating Ability FZG Test, A/8.3/90 : > 12 Grade

## MOLYDUVAL Syntholube HV Spray

### Synthetic Polymer Lubricant

A very tacky, high viscous lubricant spray for bearings, gears, chains, wire ropes, screws and nuts in many industries. Because of good creeping characteristics it penetrates into chains and wire ropes, reduces wear and protects from rust. Contains tackifiers for better adhesion.

Base Fluid : Ester  
Viscosity 40°C : 680 mm²/s  
Density 40°C : 920 kg/m³  
Temperature Range : -30 -> +260 °C

## MOLYDUVAL Syntholube T Spray

### Biodegradable Lubrication Spray

A light colour penetrating and lubrication oil with PTFE. Special usable for lubricating and preserving tools, screws, machine, chains. Contains the solid lubricant PTFE for reducing friction.

Base Fluid : KW  
Viscosity Base Fluid, 40°C : 22 mm²/s  
Density 40°C : 800 kg/m³  
Temperature Range : -10 -> +100 °C  
Temperature Range solid lubrication : -180 -> +260 °C  
Content additives : PTFE %  
Fineness Ø : < 6 µm

## MOLYDUVAL Syntholube THV Spray

### Biodegradable Lubrication Spray

A light colour penetrating and lubrication oil with PTFE. Special usable for lubricating and preserving tools, screws, machine, chains. Contains the solid lubricant PTFE for reducing friction.

Base Fluid : PAO  
Viscosity Index : 130  
Density 40°C : 870 kg/m³  
Temperature Range : -40 -> +160 °C  
Temperature Range solid lubrication : -180 -> +260 °C  
Pour point : <-40 °C  
Flash Point COC : 250 °C  
Content PTFE : 3 %

## MOLYDUVAL Tack RMV Spray

### Adhesiv-Spray

With this product you can simply stick your presentation cards to pinboard paper before stowing your work away.

Unit : 400 ml

## MOLYDUVAL Tack Spray

### Adhesive Contact Glue Spray

A contact adhesive in the spray can for fast, large-area bonding of many materials. Bonds e.g. foams and insulating materials, rigid foams, felt, jute, textiles, fabrics, upholstery wadding, many plastic films, paper and cardboard to itself as well as to metal, wood, glass or ceramics. The glue joint remains elastic, the gluing times are short and the amount to be applied is small. Double-sided application is recommended for adhesive bindings that are subject to heavy loads. To check the material compatibility, a test bonding is recommended. Can be used in the one-sided or contact adhesive process,

Unit : 400 ml

depending on the requirements.

## MOLYDUVAL Tantalus M Spray

### Heavy Duty Oil Spray with Solid Lubricants

A very special spray combination with excellent corrosion protection, good creeping properties and wear protection. Friction coefficient will be reduced.

Performance is assured by excellent film forming capabilities. Molybdenum Disulphide provides extra protection against friction and wear. MoS<sub>2</sub> smooth surfaces and improves pressure load.

Base Fluid : Min  
Viscosity Class : 150 ISO-VG  
Viscosity 40°C : 126 mm<sup>2</sup>/s  
Viscosity 100°C : 13 mm<sup>2</sup>/s  
Viscosity Index : 100/150  
Temperature Range : -20 -> 120 °C  
Pour point : -21 °C  
Flash Point COC : 270 °C

## MOLYDUVAL Titus Spray

### Lubrication Paste for Highest Temperatures

A special lubrication paste for high temperature lubrication of screw connections and sliding parts. The high content of solid lubricants, mainly ceramic or similar powders, effects at screws that parting even after long periods and very high temperatures is possible.

Base Fluid : PAO  
Thickener : Bentone  
Name : MPF2  
Density 40°C : 1100 kg/m<sup>3</sup>  
Temperature Range : -50 -> +1400 °C  
Dropping Point : no °C

## MOLYDUVAL Tutela 1 HG Spray

### Corrosion Preventive Spray

New long-time indoor corrosion preventive with ultra thin green colored protection and slide film. Suitable for tools and work pieces, which should be provided with a thin but stable protective film. Special usable for lubricating and preserving tools, screws, machine parts, also as rust protecting agent. Caused by its water repelling properties it may also be used for wet pieces or pieces being stored in humid surroundings.

Density 40°C : 810 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 130 °C  
film type : soft wax

## MOLYDUVAL Tutela 1 HGL Spray

### Corrosion Preventive Spray

New long-time indoor corrosion preventive with ultra thin protection and slide film. Suitable for tools and work pieces, which should be provided with a thin but stable protective film. Special usable for lubricating and preserving tools, screws, machine parts, also as rust protecting agent. Caused by its water repelling properties it may also be used for wet pieces or pieces being stored in humid surroundings.

Density 40°C : 810 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 130 °C  
film type : soft wax

## MOLYDUVAL Tutela 1 MB Spray

### Metal Protector Spray

A solvent containing, wax base, cutback corrosion preventive compound for outside storage or overseas transports of machine

Density 40°C : 860 kg/m<sup>3</sup>  
Temperature Range : -20 -> +200 °C  
Flash Point COC : 40 °C

tools and parts. Forms a nearly dry film which is firm, amber, translucent and non-tacky. It combines the basic requirements of good atomization, adhesion, and protection to insure that weld seams, joint and metal surfaces are protected. This pliable firm coating has a polar attraction to metal surfaces. The coating has a dielectric strength of 2000 to 3000 V and therefore protects electrical connections and prevents galvanic corrosion. It provides outstanding protection in corrosive environments.

## MOLYDUVAL Tutela 1 MG Spray

### Corrosion Preventive Spray

New long-time indoor corrosion preventive with ultra thin green colored protection and slide film. Suitable for tools and work pieces, which should be provided with a thin but stable protective film. Special usable for lubricating and preserving tools, screws, machine parts, also as rust protecting agent. Caused by its water repelling properties it may also be used for wet pieces or pieces being stored in humid surroundings.

Density 40°C : 810 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 130 °C  
film type : soft wax

## MOLYDUVAL Tutela 11 Spray

### Longterm Corrosion Protection

A solvent containing, wax base, cutback corrosion preventive compound for outside storage or overseas transports of machine tools and parts. Forms a nearly dry film which is firm, white, translucent and non-tacky. It combines the basic requirements of good atomization, adhesion, and protection to insure that weld seams, joint and metal surfaces are protected. This pliable firm coating has a polar attraction to metal surfaces. The coating protects electrical connections and may prevent galvanic corrosion. It provides outstanding protection in corrosive environments.

Basis : Wax  
Density 40°C : 840 kg/m<sup>3</sup>  
Protection Time Outdoor Storage : 12 mon  
Protection Time Indoor Storage : 24 mon  
film thickness : 50 µm  
Melting Point : 90 °C  
Drying Time : 24 h  
Corrosion Protection humidity chamber : 2400 h  
Corrosion Protection Salt Spray Test : 960 h  
Productiveness : 7 m<sup>2</sup>/kg

## MOLYDUVAL Tutela AL Spray

### Metallic Longterm Corrosion Protection

Gives cathodic and temperature-stable rust protection to metals. The temperature stability of the aluminum coating amounts to 800°C during continuous operation, at short times can it to over 900°C be loaded. The base material which can be protected is covered by spraying with a protective layer consisting of 99,5% pure aluminum. The contained bonding agent and the aluminum layer connect themselves with the layer of metal. With that a laminar, galvanic element forms for protected metal and leads to the base metal cathodic rust protection.

Unit : 400 ml

## MOLYDUVAL Tutela Inox CC Spray

### Inox Cleaner & Care

An excellent stainless steel cleaner that cleans, polishes and protects stainless steel and other metal surfaces. Can be used on stainless steel, aluminium, chrome-plated steel, marble, email and plastics. Produces a protective film.

Base Fluid : White Oil  
Density 40°C : 880 kg/m<sup>3</sup>

It has relatively low viscosity, is particularly creepable and penetrates also in close columns and cracks, has a good cor-rosion protection and is very well suitable also for the food-stuffs industry

## MOLYDUVAL Tutela Inox Spray

### Metallic Corrosion Protection based on V2A

An air drying coating, with a base made of stainless steel particles and high temperature resistant resins. Designed for protecting steel and iron elements which get a metal appearance. Its special formulation allows temperatures higher than 450°C and even non-lasting risings up to 650°C.

Temperature Range : 650 °C  
Unit : 400 ml

## MOLYDUVAL Tutela ISO Spray

### Insulating varnish

A transparent insulating and top coat based on acrylic resin. Forms a flexible and resistant film, which adheres excellently to materials such as rubber, metal, glass, plastic or wood. It is resistant to acids, oils and alkalis, is also moisture and weather resistant and is particularly characterized by its high dielectric strength. Suitable for the protection and insulation of electrical and machine parts. Due to its elasticity combined with its heat resistance, it does not crack. The treated parts are isolated and protected by a clear protective film and give the parts a high-quality appearance.

Productiveness : 2,5 m<sup>2</sup>/pc

## MOLYDUVAL Tutela MHV Spray

### Corrosion Protection Spray

A medium viscous rust preventing and corrosion protection fluid for tools and workpieces. It protects, preserves and lubricates by a thin oily and water resitant film.

Base Fluid : Min  
Viscosity 40°C : 1000 mm<sup>2</sup>/s  
Viscosity Index : 120  
Density 15°C : 900 kg/m<sup>3</sup>  
Temperature Range : -20 -> + 140 °C

This blend of mineral and synthetic oil does not contain waxes or silicones. It protects in two ways, as a protective film on the surface and by releasing tiny traces of volatile protective substances from the surface into the surrounding atmosphere.

It also contains anti-wear, friction modifying

and tackiness agents for a long lasting lubrication film preventing wear. It does not drip off.

## MOLYDUVAL Tutela Spray

### Corrosion Protector

A thin, water-displacing corrosion inhibitor for tools and parts to be coated with a thin, transparent but stable corrosion protection and lubrication film.

Because of its excellent water-repellent and creeping properties it is also suitable for the preservation of wet parts and corrosion protection in wet environments.

Base Fluid : Min  
Temperature Range : -20 -> +130 °C  
Protection Time Outdoor Storage : 0,5 mon  
Protection Time Indoor Storage : 9-18 mon  
Corrosion Protection : 30 Zyk

## MOLYDUVAL Tutela SS Spray

### Corrosion Protector

A thin, water-displacing corrosion inhibitor for tools and parts to be coated with a thin, transparent but stable corrosion protection and lubrication film.

Because of its excellent water-repellent and creeping properties it is also suitable for the preservation of wet parts and corrosion protection in wet environments.

Base Fluid : Min  
Temperature Range : -20 -> +130 °C  
Protection Time Outdoor Storage : 0,5 mon  
Protection Time Indoor Storage : 9-12 mon  
Corrosion Protection : 30 Zyk

## MOLYDUVAL Tutela XM Spray

### Corrosion Protection for bright machine parts

Very water-resistant petrolaum based corrosion inhibitor. Provide good protection and lubricity. Is well-tolerated with most materials, e.g. with metals, rubber, wood, leather and many plastics and elastomers. Shapes and contacts are sealed and protected.

Base Fluid : Petrolatum  
Consistency, Penetration 25°C : 140 · 0,1 mm  
Viscosity 100°C : 5 mm<sup>2</sup>/s  
Density 80°C : 805 g/ml  
Melting Point : 52 °C

## MOLYDUVAL Tutela ZN Spray

### Metal Protection

Long-Term protection against corrosion. It contains purest metallic zinc powder for corrosion protection of metals. Proofed according DIN 50976. Provides the proven reliability of a zinc-based surface protection. Adhesion and resulting resistance to mechanical stress is better if applied to a rough surface than to a smooth surface.

zinc : 97 %  
Temperature Range : 400 °C  
Unit : 400 ml  
Productiveness : 4 m<sup>2</sup>/l  
Protection Time Indoor Storage : 48-72 mon  
Drying Time : 0h 5min h

## MOLYDUVAL Vaseline Spray

### White and Parmaceutic Vaseline

Spray with high-purity vaseline, known as petrolatum, as lubricant and corrosion inhibitor. Contains pure, white, semi-solid petroleum jelly, which has excellent lubricating and corrosion protection

Base Fluid : Paraffin  
Consistency, Penetration 25°C : 140 · 0,1 mm  
Viscosity 100°C : 5 mm<sup>2</sup>/s  
Density 80°C : 805 g/ml  
Melting Point : 52 °C



properties. It is highly compatible with most materials, for example, metals, rubber, wood, leather and paraffin oil-resistant plastics and elastomers, and as lubricants and corrosion inhibitors among others in telecommunications engineering and electrical engineering. Contacts can be sealed and protected. Meets the requirements of the European Pharmacopoeia (Pharmacopoeia Europaea, Ph. Eur., Formerly DAB 10, German Pharmacopoeia 10th edition), and can therefore be used for the lubrication in the food and pharmaceutical industries.

For further information, please see our website [www.molyduval.com](http://www.molyduval.com) or consult your local representative.

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 17.03.2023