



# LUBRITECH – Special Application Lubricants

Product Range

LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



**LUBRITECH**  
Special Application Lubricants

# LUBRICANTS. TECHNOLOGY. PEOPLE.

## FUCHS LUBRITECH – Special Application Lubricants

Within the FUCHS Group, we at FUCHS LUBRITECH are the experts for highly specialised applications. We develop, produce and distribute the world's leading branded products of our own. Our employees are committed to solving your challenges. We are there, with you and for you.



## **LUBRITECH**

### *Special Application Lubricants*

---

#### **Facts and figures**

**Company:** FUCHS LUBRITECH GmbH, part of the FUCHS Group, based in Kaiserslautern, Germany

**LUBRITECH:** the Special Application Lubricants Division of the FUCHS Group

**Product range:** LUBRITECH GROUP offers a full range of more than 1,000 special products, including food grade lubricants, adhesive lubricants, lubricating fluids and greases, pastes, solid film lubricants, concrete release agents, aerosols and metal-forming lubricants

**Certifications:** ISO 9001: 2008, ISO 21469, Halal, Kosher

---

**FUCHS** has developed, produced, and sold lubricants and related specialties for more than 80 years – for virtually all applications and sectors. With over 100,000 customers and 50 companies worldwide, the FUCHS Group is the world's leading independent lubricant supplier.

Within the FUCHS Group, **FUCHS LUBRITECH** is the expert for Special Application Lubricants. A team of more than 500 specialists around the world work to meet your needs. However demanding the application, we offer a specialised solution. Service is a crucial and fundamental component of our offering. Our experts offer on-site technical consultation to assure performance, efficiency and process reliability.

**FUCHS LUBRITECH** special lubricants stand for the highest performance and sustainability, safety and reliability as well as efficiency and cost savings. They represent a promise: **technology that pays back.**



## Contents

---

**06–07**

The world of specialty application lubricants

**08–19**

Lubricating fluids

**20–27**

Adhesive lubricants – CEPLATTYN

**28–43**

Lubricating greases

**44–55**

Pastes and grease pastes

**56–65**

HMP films and solid film lubricants (SFL)



## Guide to Symbols

### 66–71

Rust looseners and techno-chemical products

### 72–75

Grease guns for SR screw cartridges



High temperature



Low temperature



Extreme pressure



Available as spray



Eco-friendly



Drinking water



Oxygen gittings



Compressed air tools

## The world of special application lubricants

Understanding your branch of industry,  
developing comprehensive solutions.



Food and beverage



Windpower



Railway



Cement



Glass



Coatings



**Mining**



**Refractory industry**



**Forging**



**HT chain oils**



**Concrete release agents**



**Bearings, OEM components**

## LUBRICATING FLUIDS

Modern lubricating fluids are ideal where good penetrating effect and wetting capacity are demanded. In addition, they often perform a cooling and cleaning function.



Modern lubricating fluids today cover an extremely wide spectrum. They are the “elixir” for every machine. While in the past mostly mineral oils were used, today in nearly all High-Tech applications fully synthetic lubricating fluids are in use. New production and manufacturing processes, higher capacity utilisation of machines, reduced time and personnel resources in maintenance and service have promoted the development of more and more specialised lubricants.

The extensive lubricating fluids programme of FUCHS LUBRITECH offers the widest choice of products for use in lifetime and total loss lubrication. Apart from the traditional fluids based on mineral oils, there is a full range of synthetic fluids available, e.g. for use in high and low temperature applications, in the food industry and in areas where environmental constraints have to be addressed.

### Overview

---

Hydraulic oils .....	10
Gear oils.....	10
Chain fluids for temperatures up to +150°C.....	12
Chain fluids for extreme temperatures.....	13
Eco-friendly chain fluids .....	14
Wire rope lubricants .....	15
Oils for compressed air tools.....	16
Lubricating fluids for rail traffic .....	16
Lubricating fluids for special applications.....	17

---

## Hydraulic oils

### ■ ECO-HYD S RANGE ECO-FRIENDLY HYDRAULIC OILS BASED ON SYNTHETIC ESTER

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
ECO-HYD 32 S	synth. Ester	-30/+90	HLPE 32	32	–
ECO-HYD 46 S	synth. Ester	-30/+90	HLPE 46	46	–
ECO-HYD 68 S	synth. Ester	-30/+90	HLPE 68	68	–



For all types of industrial and vehicle hydraulics, particularly in environmentally sensitive areas. Easily biodegradable as per OECD 301 B.

**Approvals/Recommendations:**  
Bosch Rexroth, STILL

### ■ ECO-HYD S PLUS ECO-FRIENDLY MULTIGRADE HYDRAULIC OIL BASED ON SYNTHETIC ESTER

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
ECO-HYD S PLUS	synthetic	-30/+100	HLPE 46	46	–



For hydraulics under harsh conditions e.g. at extreme temperature fluctuations. Can replace universal oil-based hydraulic oils of the viscosity classes ISO VG 22-68 forexample due to its outstanding multigrade character.

**Approvals/Recommendations:**  
Bosch Rexroth, STILL

## Gear oils

### ■ GEARMASTER CLP RANGE HIGH-PERFORMANCE MINERAL OIL-BASED GEAR OILS

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
GEARMASTER CLP 68	mineral oil	-15/+120	CLP 68	68	–
GEARMASTER CLP 100	mineral oil	-15/+120	CLP 100	100	–
GEARMASTER CLP 150	mineral oil	-15/+120	CLP 150	150	–
GEARMASTER CLP 220	mineral oil	-15/+120	CLP 220	220	–
GEARMASTER CLP 320	mineral oil	-15/+120	CLP 320	320	–
GEARMASTER CLP 460	mineral oil	-10/+120	CLP 460	460	–
GEARMASTER CLP 680	mineral oil	-10/+120	CLP 680	680	–



For heavy-duty industrial gears such as spur, bevel and planetary types. They clearly surpass the requirements of DIN 51517-3 and are characterised by their excellent ageing resistance, exceptional wear prevention properties as well as their ability to withstand grey staining.

**Approvals/Recommendations:**  
AUMUND Fördertechnik, FLSmidth MAAG Gear, Gebr. Pfeiffer, KHD Humboldt Wedag International, Loesche, pekrun Getriebebau, ThyssenKrupp Resource Technologies

## Gear oils

### ■ GEARMASTER CLPF RANGE $\text{MOS}_2$ -CONTAINING HIGH-PERFORMANCE MINERAL OIL-BASED GEAR OILS

	In heavy-duty industrial gears such as spur-wheel gears, bevel gears, planetary gears and worm gears, especially at low peripheral speeds and shock loads. Results in a longer service life of heavy-duty gears.		<b>Approvals/Recommendations:</b> Ferry Captain		
					
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
GEARMASTER CLPF 100	mineral oil	-15/+120	CLPF 100	100	–
GEARMASTER CLPF 220	mineral oil	-10/+120	CLPF 220	220	–
GEARMASTER CLPF 320	mineral oil	-10/+120	CLPF 320	320	–
GEARMASTER CLPF 460	mineral oil	-5/+120	CLPF 460	460	–
GEARMASTER CLPF 680	mineral oil	-5/+120	CLPF 680	680	–
GEARMASTER CLPF 1500	mineral oil	0/+120	CLPF 1500	1500	–

### ■ GEARMASTER SYN RANGE HIGH-PERFORMANCE SYNTHETIC HYDROCARBON-BASED GEAR OILS

	For heavy-duty industrial gears such as spur, bevel and planetary types, especially at increased or highly fluctuating operating temperatures. GEARMASTER SYN oils can be mixed at any ratio with mineral oils and are characterised by a distinctly favourable viscosity-temperature characteristic and a higher resistance to ageing.		<b>Approvals/Recommendations:</b> FLSmidth MAAG Gear, Loesche, pekrun Getriebebau, ThyssenKrupp Resource Technologies		
					
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
GEARMASTER SYN 68	PAO	-30/+150	CLP-HC 68	68	–
GEARMASTER SYN 100	PAO	-30/+150	CLP-HC 100	100	–
GEARMASTER SYN 150	PAO	-30/+150	CLP-HC 150	150	–
GEARMASTER SYN 220	PAO	-20/+150	CLP-HC 220	220	–
GEARMASTER SYN 320	PAO	-20/+150	CLP-HC 320	320	–
GEARMASTER SYN 460	PAO	-20/+150	CLP-HC 460	460	–
GEARMASTER SYN 680	PAO	-20/+150	CLP-HC 680	680	–
GEARMASTER SYN 1000	PAO	-20/+150	CLP-HC 1000	1000	–

### ■ GEARMASTER PGP RANGE HIGH-PERFORMANCE POLYGLYCOL-BASED GEAR OILS

	For heavy-duty industrial gears such as spur-wheel gears, bevel gears, planetary gears and worm gears. Wherever there is a high share of sliding parts in gears as well as for use at very high temperatures.		<b>Approvals/Recommendations:</b> FLSmidth MAAG Gear, Gebr. Pfeiffer, Loesche, pekrun Getriebebau, Schaeffler Technologies (FAG), ThyssenKrupp Resource Technologies		
					
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
GEARMASTER PGP 100	Polyglykol	-30/+150	CLP-PG 100	100	–
GEARMASTER PGP 150	Polyglykol	-30/+150	CLP-PG 150	150	–
GEARMASTER PGP 220	Polyglykol	-30/+150	CLP-PG 220	220	–
GEARMASTER PGP 320	Polyglykol	-30/+150	CLP-PG 320	320	–
GEARMASTER PGP 460	Polyglykol	-30/+150	CLP-PG 460	460	–
GEARMASTER PGP 680	Polyglykol	-20/+150	CLP-PG 680	680	–
GEARMASTER PGP 1000	Polyglykol	-20/+150	CLP-PG 1000	1000	–

## Gear oils

### ■ GEARMASTER ECO RANGE ECO-FRIENDLY HIGH-PERFORMANCE SYNTHETIC ESTER BASED GEAR OILS



For heavy-duty spur, bevel, planetary and worm gears, especially in environmentally-sensitive areas (water protection zones, wind power plants).

**Approvals/Recommendations:**  
Bosch Rexroth, KHD Humboldt Wedag International, pekrun Getriebebau, Schaeffler Technologies (FAG), ThyssenKrupp Resource Technologies

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
GEARMASTER ECO 68	synth. Ester	-30/+150	CLPE 68	68	–
GEARMASTER ECO 100	synth. Ester	-40/+150	CLPE 100	100	–
GEARMASTER ECO 150	synth. Ester	-30/+150	CLPE 150	150	–
GEARMASTER ECO 220	synth. Ester	-30/+150	CLPE 220	220	–
GEARMASTER ECO 320	synth. Ester	-30/+150	CLPE 320	320	–
GEARMASTER ECO 460	synth. Ester	-30/+150	CLPE 460	460	–
GEARMASTER ECO 680	synth. Ester	-30/+150	CLPE 680	680	–

## Chain fluids for temperatures up to +150°C

### ■ STABYLAN 3080 MINERAL OIL-BASED CHAIN LUBRICANT

For chain drives operating at high humidity, e.g. in docks, escalators, drive and conveying chains.

**Approvals/Recommendations:**  
Koenig & Bauer

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 3080	mineral oil	-25/+80	–	100	> 140

### ■ STABYLAN W 880 MINERAL OIL-BASED LUBRICATING FLUID WITH WHITE SOLID LUBRICANTS



For lubrication of levers, joints, chains and other mechanisms, particularly for oscillating movements. Wherever rapid and self-activating penetration of the lubricant is required. Reduces friction losses and functional performance drops and protects against fretting corrosion.

**Approvals/Recommendations:**  
KARL MAYER Textilmaschinenfabrik

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN W 880	mineral oil	-30/+60	–	19.5	> 65

### ■ STABYLAN G 1000 CHAIN LUBRICANT WITH GRAPHITE



For chain drives of all types in the normal temperature range, e.g. in the automotive industry, chemical industry, mechanical engineering, for transport or conveyor chains, forklift chains and external wire rope lubrication.

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN G 1000	mineral oil	-30/+100	–	40	> 158

## Chain fluids for temperatures up to +150°C

### ■ STABYLAN 2001 SEMI-SYNTHETIC CHAIN LUBRICANT

	For conveyor and drive chains operating at elevated temperatures e.g. in the chemical industry, mechanical engineering and wood processing.			<b>Approvals/Recommendations:</b> Koenig & Bauer, ThyssenKrupp Resource Technologies, RUD Ketten	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 2001	semi-synthetic	-15/+150	–	215	> 230

## Chain fluids for extreme temperatures

### ■ STABYLAN 3001 FULLY SYNTHETIC CHAIN LUBRICANT

	For chains, plain and roller bearings at high temperatures, e.g. in furnaces, dryers, stenter frames. Very good hot water resistance.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 3001	synthetic	-10/+220	–	160	> 260

### ■ STABYLAN MO 3001 CHAIN LUBRICANT WITH MOS<sub>2</sub>

	For conveyor and drive chains as well as plain and roller bearings and sliding surfaces particularly for high-temperature operation in furnaces and dryers etc., e.g. in the chemical and automotive industry, in mechanical engineering, wood and plastics processing, packaging systems and in glass industry. Excellent dry running properties.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN MO 3001	synthetic	-10/+220	–	160	> 245

### ■ STABYLAN 5000 FULLY SYNTHETIC HIGH-TEMPERATURE CHAIN LUBRICANT

	For conveyor and drive chains, stenter frames, conveying equipment, dryers in the chemical, mechanical engineering and textile industries. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures.			<b>Approvals/Recommendations:</b> Brückner	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 5000	synthetic	-20/+240	–	100	> 260

## Chain fluids for extreme temperatures

### ■ STABYLAN 5001 FULLY SYNTHETIC HIGH-TEMPERATURE CHAIN LUBRICANT



For high-temperature applications for conveyor and drive chains, bearings and sliding surfaces in the chemical and automotive, textile technology and raw materials industries. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures. Excels in the lubrication of chains in tempering furnaces of the insulation material industry.

**Approvals/Recommendations:**

Bernd Münstermann, URSA Deutschland

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 5001	synthetic	-15/+240	–	180	> 260

### ■ STABYLAN 5006 FULLY SYNTHETIC HIGH-TEMPERATURE CHAIN LUBRICANT



“Chain honey” for largesized conveyor and drive chains, sliding surfaces, cams, bearings and disc cams e.g. in the chemical industry, in mechanical engineering, steel hydraulics and in printing machines. Is characterised by very low evaporation losses and does not form any lacquer-like deposits even at increased operating temperatures.

**Approvals/Recommendations:**

Koenig & Bauer, RUD Ketten

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 5006	synthetic	0/+240	–	3000	> 260

### ■ STABYLAN 6020 CHAIN FLUID FOR EXTREMELY HIGH TEMPERATURES



For minimum quantity lubrication of chains in tempering furnaces for insulation production as well as all types of steel link chains. Is characterised by very low evaporation losses and does not form any lacquerlike deposits even at increased operating temperatures. The high flash point offers maximum safety at high temperatures.

**Approvals/Recommendations:**

Bernd Münstermann

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN 6020	synthetic	-20/+260	–	130	> 290

## Eco-friendly chain fluids

### ■ STABYLAN ECO W 10 BIODEGRADABLE SYNTHETIC OIL WITH WHITE SOLID LUBRICANTS



For lubrication of levers, joints, chains and other mechanisms, particularly for oscillating movements. Wherever rapid and self-activating penetration of the lubricant is required.

**Approvals/Recommendations:**

LEITNER

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN ECO W 10	synthetic	-20/+110	–	18	> 190

## Eco-friendly chain fluids

### ■ STABYLAN ECO 20 BIODEGRADABLE LUBRICATING FLUID

	For all types of chains and oil-lubricated machine elements, particularly in environmentally sensitive areas characterised by its very good corrosion protection and high water resistance.			<b>Approvals/Recommendations:</b> SIG Combibloc, ThyssenKrupp Resource Technologies	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
STABYLAN ECO 20	synthetic	-40/+160	–	95	–

## Wire rope lubricants

### ■ CEDRACON WIRE ROPE LUBRICANT AND PRESERVATION FLUID WITH GRAPHITE

	For wire ropes exposed to heavy mechanical stresses and chemical influences, e.g. in mining, steel works, and in the chemical industry.			<b>Approvals/Recommendations:</b> Casar Drahtseilwerke Saar, LEITNER	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
CEDRACON	mineral oil	-35/+65	–	–	–

### ■ CEDRACON K SOLID LUBRICANT-FREE WIRE ROPE LUBRICANT AND PRESERVATION FLUID

For preservation of wire ropes of all kinds, e.g. on cranes and diggers. After evaporation of the solvent a highly viscous, non-dripping lubricating film remains.					
Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C	
CEDRACON K	mineral oil	-30/+70	–	–	–

### ■ CEDRACON S 3 ECO-FRIENDLY WIRE ROPE LUBRICANT AND PRESERVATION FLUID

	For the external preservation of all types of wire ropes such as suspension and haulage cables of cable cars, waterway locks, weirs and for industrial cableways. After evaporation of the solvent a highly viscous, nondripping lubricating film remains.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
CEDRACON S 3	semi-synthetic	-40/+80	–	–	–

## Oils for compressed air tools

### ■ KOMPRANOL 1002 LUBRICATING AND PRESERVATION FLUID FOR COMPRESSED AIR TOOLS

	For lubrication and preservation of compressed air tools of all types in all industries, even for underground use.			<b>Approvals/Recommendations:</b> Maschinenfabrik Gustav Eirich	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
KOMPRANOL 1002	mineral oil	-40/+80	–	11	–

### ■ KOMPRANOL GRÜN ECO-FRIENDLY LUBRICATING AND PRESERVATION FLUID FOR COMPRESSED AIR TOOLS

	For compressed air tools of all types, e.g. pneumatic hammers and chisels, tunnelling machines, pneumatic pile drivers in all industries. Absorbs water condensate without loss of the lubricity.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
KOMPRANOL GRÜN	synthetic	-60/+90	–	20	–

### ■ KOMPRANOL PF 84 SYNTHETIC, ECO-FRIENDLY OIL FOR COMPRESSED AIR TOOLS

	Mixture of fully-synthetic oil with additives for protection against corrosion and wear. For lubrication of compressed air tools such as pneumatic hammers and chisels, displacement mole drives, and pneumatic tools in all branches of industries, especially in the construction industry. Picks up condensate without loss of lubricating quality.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
KOMPRANOL PF 84	synthetic	-60/+90	–	20	–

## Lubricating fluids for rail traffic

### ■ TRAMLUB S 3 ECO-FRIENDLY RAIL AND WHEEL FLANGE LUBRICATING FLUID

	For eco-friendly lubrication of rails and wheel flanges of railway vehicles as well as for lubrication of switches. TRAMLUB S 3 is also very suitable for eco-friendly lubrication of chains.			<b>Approvals/Recommendations:</b> DELIMON, REBS Zentralschmiertechnik	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
TRAMLUB S 3	synthetic	-25/+100	–	165	–

## Lubricating fluids for rail traffic

### ■ TRAMLUB S 4 ECO-FRIENDLY RAIL AND WHEEL FLANGE LUBRICATING FLUID

	For eco-friendly lubrication of rails and wheel flanges of railway vehicles.			<b>Approvals/Recommendations:</b> DELIMON, REBS Zentralschmiertechnik	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
TRAMLUB S 4	synthetic	-30/+100	–	37	–

### ■ TRAMLUB S 5 ECO-FRIENDLY RAIL AND WHEEL FLANGE LUBRICATING FLUID

	For eco-friendly lubrication of rails and wheel flanges of railway vehicles as well as for reliable lubrication of sliding surfaces of switch plates.			<b>Approvals/Recommendations:</b> DELIMON, REBS Zentralschmiertechnik, Sécheron	
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
TRAMLUB S 5	synthetic	-30/+100	–	68	–

### ■ TRAMLUB SPL-F 1 BIODEGRADABLE SWITCH LUBRICATING FLUID

	Graphited fluid for the lubrication of switches and switch plates in all types of railway traffic systems, as well as for subways, tram networks, industrial railroads etc.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
TRAMLUB SPL-F 1	synthetic	-35/+100	–	30	–

## Lubricating fluids for special applications

### ■ CARBAFLO KSP 105 PERFLUORINATED HIGH-PERFORMANCE LUBRICATING FLUID

	Reduces mechanical noise due to stick-slip effects in the passenger compartment of cars, e.g. leather creaking, squeaking of the instrument panel and interior trim.				
	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
CARBAFLO KSP 105	synthetic	-40/+200	–	148	none

## Lubricating fluids for special applications

### ■ CARBAFLO XTR 5 F PERFLUORINATED HIGH-PERFORMANCE LUBRICATING FLUID



After the evaporation of the carrier liquid a thin, anti-squeak-effective film remains which can be detected on any surface by a UV lamp. Used to avoid squeaking noise in the vehicle interior and for sealing systems.

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
CARBAFLO XTR 5 F	synthetic	-40/+220	–	174	none

### ■ CHEMPLEX SI SPRAY SILICONE LUBRICANT



CHEMPLEX SI SPRAY combines the excellent properties of silicone lubricants with the easy application from a spray can. Water-repellent, not greasy, does not attack plastics and rubber elastomers. For lubrication of telescopic platforms of road finishers, door sealings of vehicles, zippers, snaps fasteners, hinges, precision mechanics. Only available as spray!

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
CHEMPLEX SI SPRAY	silicone	-40/+250	–	730	none

### ■ ONTROPEEN 10 CHEMICALLY RESISTANT LUBRICATING FLUID BASED ON PERFLUORINATED POLYETHER



For lubrication of special machine elements in the chemical industry at high and low temperatures. It is recommended as a pressure transfer fluid for process control devices in the chemical industry.

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
ONTROPEEN 10	synthetic	-60/+180	–	8	none

### ■ ONTROPEEN 40 CHEMICALLY RESISTANT LUBRICATING FLUID BASED ON PERFLUORINATED POLYETHER



For lubrication of roller and sliding contacts of all types in the high-temperature range, primarily in the chemical and food industries as well as for lubrication of gearboxes and armatures in the oxygen industry.

	Base oil	Temperature range in °C	Classification	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Flash point in °C
ONTROPEEN 40	synthetic	-30/+260	–	80	none



## ADHESIVE LUBRICANTS – CEPLATTYN

CEPLATTYN was the first sprayable adhesive lubricant developed more than 50 years ago. Nowadays adhesive lubricants marketed under this name are available throughout the world in a whole range of specially formulated products for a wide range of applications.



The product portfolio encompasses both grease-based, graphited lubricants, high-viscosity fluids free from solid lubricants and semi-fluids containing solid lubricants. Suitable CEPLATTYN lubricants are available for all common application methods. CEPLATTYN effectively and successfully reduces the wear of your machine parts through its special formulation and very good adhesion. CEPLATTYN adhesive lubricants are recommended or prescribed by leading equipment manufacturers.

The CEPLATTYN adhesive lubricants range fulfils the tough tribotechnical conditions encountered. The CEPLATTYN range can be used in numerous industrial applications, e.g. open-running drive units on tube mills, rotary kilns, dryers, ore crushers, calcinators etc. In addition on slewing rings, rack-and-pinion devices, slide rails and bolted connections. CEPLATTYN lubricants are suitable for the most varied operating conditions and can be used with all types of application equipment.

## Overview

Solid-containing fluids.....	22
Splash lubrication.....	22
Graphited/Grease-based .....	23
Light-coloured, graphite-free .....	25
Riding ring lubrication.....	26
Eco-friendly adhesive lubricants .....	26

## Solid-containing fluids

### ■ CEPLATTYN GT 10 LIGHT-COLOURED, HIGH-VISCOSITY OPEN GEAR LUBRICANT WITH WHITE SOLID LUBRICANTS



CEPLATTYN GT 10 is a high-viscosity adhesive lubricant for heavy-duty Open Gears, e.g. on kilns, mills and driers in the raw materials industry. CEPLATTYN GT 10 has been especially developed for the application on Open Gears under critical operating conditions, such as low-speed kiln drives with increased tooth flank temperatures, mill drives with extreme drive power, and drives which are frequently operated under start-stop conditions.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN GT 10	synthetic	–	white	0/+140	light-coloured	–	–	10000	none

### ■ CEPLATTYN GT P LIGHT-COLOURED PRIMING LUBRICANT FOR OPEN GEARS

Used as a priming lubricant for Open Gears, is especially adjusted to CEPLATTYN GT and SF operational lubricants.

**Approvals/Recommendations:**  
ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN GT P	semi-synthetic	Al-X	white	-20/+140	beige	–	1–2	300	> 200

### ■ CEPLATTYN GT RN LIGHT-COLOURED RUNNING-IN LUBRICANT FOR OPEN GEARS

Is used to smoothen the manufacturing surface roughness of the tooth surfaces and to optimise the contact pattern on newly installed gear rims and pinions.

**Approvals/Recommendations:**  
ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN GT RN	synthetic	–	–	-10/+120	light-c./milky	–	–	3200	none

## Splash lubrication

### ■ CEPLATTYN 100 HV | MV SEMI-LIQUID ADHESIVE LUBRICANTS

For bath lubrication of Open Gears in mills, dryers and rotary kilns.

**Approvals/Recommendations:**  
FLSmidth MAAG Gear, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN 100 HV	mineral oil	Al-X	C	0/+140	black	–	–	1750	–
CEPLATTYN 100 MV	mineral oil	Al-X	C	-5/+140	black	–	–	500	–

## Splash lubrication

### ■ CEPLATTYN GT 3 LIGHT-COLOURED, HIGH-VISCOSITY OPEN GEAR LUBRICANT WITH WHITE SOLID LUBRICANTS



CEPLATTYN GT 3 has been especially developed for the application on Open Gears under critical operating conditions, such as low-speed kiln drives with increased tooth flank temperatures, mill drives with extreme drive power, and drives which are frequently operated under start-stop conditions.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN GT 3	synthetic	–	white	-5/+80	light-coloured	–	–	3200	–

## Graphited/grease-based

### ■ CEPLATTYN 300 GRAPHITE PASTE WITH HIGH-PRESSURE AND ADHESIVE ADDITIVES



Priming lubricant for large Open Gear drives, toothed racks, sliding surfaces. Can also be used as a lubricant for chains, sliding surfaces and gears in steel hydraulic engineering, in open cast and underground mines as well as for wire ropes. Dry lubrication up to +500°C.

**Approvals/Recommendations:**  
DB-Mat.-Nr. 106169, Ferry Capitain, FLSmidth MAAG Gear, Gebr. Pfeiffer, KHD Humboldt Wedag International, Maschinenfabrik Gustav Eirich, ThyssenKrupp Resource Technologies, RUD Ketten

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN 300	mineral oil	Al-X	C	-30/+250	black	–	1–2	1300	> 200

### ■ CEPLATTYN RN SPRAYABLE RUNNING-IN LUBRICANT FOR OPEN GEARS

CEPLATTYN RN can be applied to single and double pinion drives of any kind of tube mills and kilns, e.g. in cement works, fertilizer plants, combustion and compost units. CEPLATTYN RN is applied to gear drives with high performance. Furthermore it is used when running under critical operating conditions, when having big tooth widths or when running with high speeds.

**Approvals/Recommendations:**  
Ferry Capitain, FLSmidth MAAG Gear, KHD Humboldt Wedag International, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN RN	semi-synthetic	Al-X	Combination	-10/+140	black	–	00	460	> 200

## Graphited/grease-based

### ■ CEPLATTYN KG 10 HMF SPRAYABLE ADHESIVE LUBRICANT FOR OPEN GEARS

For open running gear drive units of tube mills, rotary kilns, dryers, crushers.

**Approvals/Recommendations:**

Ferry Captain, FLSmidth MAAG Gear, Gebr. Pfeiffer, KHD Humboldt Wedag International, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN KG 10 HMF	mineral oil	Al-X	C	-10/+140	black	OGPF0-00N-10	0-00	500	> 180

### ■ CEPLATTYN KG 10 HMF-1000 SPRAYABLE ADHESIVE LUBRICANT FOR OPEN GEARS

For open running gear drives used under heavy loads and where the surrounding and tooth flank temperatures are permanently increased as well as for gear drives with slightly damaged tooth flanks and unfavourable load pattern.

**Approvals/Recommendations:**

Ferry Captain, FLSmidth MAAG Gear, KHD Humboldt Wedag International, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN KG 10 HMF-1000	mineral oil	Al-X	C	-10/+140	black	OGPF0-00N-10	0-00	1000	> 180

### ■ CEPLATTYN KG 10 HMF-2500 SPRAYABLE ADHESIVE LUBRICANT FOR OPEN GEARS

For drives with pre-damaged load-carrying tooth flanks (pitting formation, chipped surface etc.) and for tooth flank temperatures of more than +70°C. Because of the high viscosity of the base oil, transmission of vibrations is dampened.

**Approvals/Recommendations:**

Ferry Captain, FLSmidth MAAG Gear, KHD Humboldt Wedag International, Outotec, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN KG 10 HMF-2500	mineral oil	Al-X	C	+5/+140	black	OGPF0-00N+5	0-00	2500	> 180

### ■ CEPLATTYN BL GRAPHITED ADHESIVE LUBRICANT

For lubrication of machines and machine parts under difficult operating conditions, e.g. gear wheels, slide bars, chains, worm gears and ropes as well as for lubrication of machine parts subject to outdoor temperature fluctuations and environmental influences. Also suitable for use on wind turbine actuators.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN BL	mineral oil	Al-X	C	-20/+150	black	OGPF2P-20	2	500	> 220

## Light-coloured, graphite-free

### ■ CEPLATTYN SF 10 HIGH-VISCOSITY ADHESIVE LUBRICANT FOR OPEN GEARS

The high base oil viscosity guarantees a stable lubricant film between the contacting tooth flanks. This leads to the exceptional efficiency together with the new type of additive package. Use on Open Gears in mills and large drive chains in raw materials industry. Meets AGMA 2005-D94/13 EP/13 S.

**Approvals/Recommendations:**  
Ferry Captain, Metso, Outotec,  
ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN SF 10	synthetic	–	–	0/+120	light-coloured	–	–	10000	–

### ■ CEPLATTYN SF 30 EXTREMELY HIGH-VISCOSITY ADHESIVE LUBRICANT FOR OPEN GEARS

For use on Open Gears in the raw materials industry. The extremely high base oil viscosity guarantees a good separation of the friction partners resulting in an exceptional efficiency. Reliable operation of the drives is guaranteed even with small amounts of the lubricant.

**Approvals/Recommendations:**  
Metso

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN SF 30	synthetic	–	–	+15/+120	light-coloured	–	–	30000	–

### ■ CEPLATTYN BL WHITE ADHESIVE LUBRICANT WITH REACTIVE SOLID LUBRICANTS

CEPLATTYN BL WHITE is especially used for the lubrication of azimuth and pitch gears in wind power plants. In addition to that it is used, e.g. on gears, sliding tracks, chains, worm gears, and wire ropes, or for the lubrication of machine parts subjected to considerable temperature fluctuations and environmental influences.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN BL WHITE	semi-synthetic	Al-X	white	-40/+160	light-coloured	–	1–2	300	> 200

## Riding ring lubrication

### ■ CEPLATTYN HT SYNTHETIC OIL WITH SOLID LUBRICANTS



For internal lubrication of riding rings fitted to rotary kilns or dryers.

#### Approvals/Recommendations:

FLSmidth MAAG Gear, KHD Humboldt Wedag International, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN HT	synthetic	–	C	-20/+600	black	–	–	160	–

### ■ CEPLATTYN TL OIL EMULSION WITH SOLID, METALLIC LUBRICANTS



For internal lubrication of riding rings fitted to rotary kilns or dryers. Silver-coloured, thus very good application inspection.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN TL	Fluid	–	metallic	+5/+230	silver	–	–	–	–

## Eco-friendly adhesive lubricants

### ■ CEPLATTYN ECO 300 ECO-FRIENDLY ADHESIVE LUBRICANT WITH SOLID LUBRICANTS



For sprocket chains, Open Gears, wire ropes, rack and pinion devices, sliding surfaces in locks and weirs, in the chemical industry, in mechanical engineering, in construction machinery and all kinds of conveyors. For lubrication of buffer plates, screwed joints, handbrake screws and horn cheeks on rolling stock.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN ECO 300	native	Ca	C	-20/+80	grey	–	1	–	> 120

### ■ CEPLATTYN ECO 300 PLUS ECO-FRIENDLY, FULLY SYNTHETIC ADHESIVE LUBRICANT WITH SOLID LUBRICANTS



For the lubrication of buffer discs, screw couplings, handbrake spindles and axle guard sliding plates on rolling stock. For the lubrication of plate link chains.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN ECO 300 PLUS	synthetic	inorganic	C/PTFE	-30/+100	grey	–	0	–	–

## Eco-friendly adhesive lubricants

### ■ CEPLATTYN ECO S PLUS ECO-FRIENDLY ADHESIVE LUBRICANT WITH SOLID LUBRICANTS



CEPLATTYN ECO S PLUS is suitable for the eco-friendly lubrication and preservation of wire ropes, e.g. in open-cast mining, crane systems, floater cranes, and dockside diggers. CEPLATTYN ECO S PLUS can also be used to lubricate sliding surfaces of any kind in environmentally-sensitive areas.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CEPLATTYN ECO S PLUS	synthetic	inorganic	graphite	-20/+120	black	–	2	–	–



## LUBRICATING GREASES

FUCHS LUBRITECH lubricating greases are effectively used in all industrial areas. Wherever traditional lubricants, for whatever reason, do not fulfil the requirements or simply do not work in the best possible way, we see benefits in using our high-performance greases.



The spectrum ranges from long-life greases for mechanical engineering, biodegradable lubricating greases for environmentally-sensitive areas, to high and exceptionally high-temperature greases for use in extreme operating conditions. Numerous approvals for use and testimonials from users confirm the high efficiency and reliability of FUCHS LUBRITECH greases. Hidden behind the product names are highly-developed and tested lubricating greases, which care for our customers' machinery and plants in the best possible way.

## Overview

---

Plain and roller bearing greases for temperatures up to +140°C.....	30
Plain and roller bearing greases for extreme temperatures.....	33
Eco-friendly lubricating greases.....	38
Other greases for special applications.....	39
Silicone greases for special applications.....	39
Extreme temperature greases, chemically resistant .....	41
Lubricating greases for rail traffic .....	41
Semi-fluid greases .....	43

---

## Plain and roller bearing greases for temperatures up to +140°C

### ■ LAGERMEISTER 3000 PLUS HEAVY-DUTY, EXTREMELY WATER-RESISTANT LONG-TERM EP-GREASE



For all plain and roller bearings, on which there are high dynamic loads, e.g. in industry, construction and agricultural machinery. It provides excellent resistance to water and salt water as well as extremely good adhesive properties.

**Approvals/Recommendations:**  
Baier + Köppel, Dellner Couplers, Josef Fröhling, Lincoln

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER 3000 PLUS	semi-synthetic	Ca	–	-30/+120	greenish	KP2K-30	2	800	≥ 140

### ■ LAGERMEISTER BF 1 | BF 2 LONG-TERM EP-GREASES



Universal greases for plain and roller bearings in mechanical engineering, the chemical industry and construction machines. For varying loads and speeds.

**Approvals/Recommendations:**  
Baier+Köppel, General Motors, KHD Humboldt Wedag International, Maschinenfabrik Köppern, Outotec, Salzgitter Maschinenbau (SMAG), SMS Meer, ThyssenKrupp Rothe Erde

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER BF 1	mineral oil	Li	–	-20/+120	brown	KP1K-20	1	220	≥ 185
LAGERMEISTER BF 2					natural yellowish	KP2K-20	2	200	≥ 190

### ■ LAGERMEISTER CA 95/100 N WATER-RESISTANT GREASE WITH GRAPHITE

For underwater lubrication of plain and roller bearings on vertical lift and lock gates, large sprocket chains, closing elements in sewage plants, cable wheel mounts on dredgers etc.

**Approvals/Recommendations**  
KIROW ARDEL, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER CA 95/100 N	mineral oil	Ca	C	-30/+60	black	MF2C-30	2	90	≥ 100

### ■ LAGERMEISTER EP 2 LONG-LIFE EP-GREASE



For lubrication of plain and roller bearings subject to high and shock loads, temperature fluctuations and difficult environmental conditions in, for example general engineering, the chemical industry, iron and steel industries, construction machinery or automotive industries.

**Approvals/Recommendations**  
Baier + Köppel, Liebherr-International Deutschland, Lincoln, Terex Germany, ThyssenKrupp Rothe Erde, Wather Flender

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER EP 2	mineral oil	Li	–	-20/+130	natural colour	KP2K-20	2	200	≥ 190

## Plain and roller bearing greases for temperatures up to +140°C

### ■ LAGERMEISTER HDG 00 HIGH-PERFORMANCE EP-GREASE WITH SEMI-FLUID WHITE SOLID LUBRICANTS



For lubrication of machine elements in the mixed friction area, such as roller and plain bearings subjected to high pressure, intermittent loads and vibrating or oscillating movements. It is particularly appropriate if the surrounding area involves high humidity or the effects of splash water.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER HDG 00	mineral oil	Ca-X	white	-30/+120	beige	K/GPF00K-30	00	350	≥ 240

### ■ LAGERMEISTER LP 2 LITHIUM SOAP-BASED MULTI-PURPOSE GREASE WITH EP PROPERTIES



LAGERMEISTER LP 2 is a long-life EP-grease based on mineral oil and can be used as an all-round product for multi-purpose lubrication.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER LP 2	mineral oil	Li	–	-25/+120	nature	KP2K-20	2	135	≥ 180

### ■ LAGERMEISTER SL | SLG PLAIN AND ROLLER BEARING LUBRICATION

For lubrication of plain and roller bearings at normal operating temperatures in mechanical engineering, and conveyors. It is also suitable as a chassis and sealing grease.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER SL	mineral oil	Li	–	-20/+120	beige	K2-3K-20	2–3	100	≥ 190
LAGERMEISTER SLG	mineral oil	Li	graphite	-30/+120	grey-black	KF2K-30	2	100	≥ 190

### ■ LAGERMEISTER TS SEMI-SYNTHETIC HIGH-PERFORMANCE ROLLER BEARING GREASE



For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low revolutions per minute. Allows longer regreasing intervals when compared to conventional greases. Very good adhesive properties.

#### Approvals/Recommendations:

DB-Mat.-Nr. 245467, KHD Humboldt Wedag International, R.STAHL, Zeppelin Baumaschinen

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER TS	semi-synthetic	Li	–	-30/+140	natural colour	KP2N-30	2	800	≥ 190

## Plain and roller bearing greases for temperatures up to +140°C

### ■ LAGERMEISTER WHS 2002 HIGH-PERFORMANCE EP-GREASE WITH WHITE SOLID LUBRICANTS



For plain and roller bearings operating under extreme conditions (dust, water, vibrations), e.g. conveyors, construction machines, raw material processing machines. For lubrication of plastic crosshead guides on telescopic cranes. Also available as fluid.

**Approvals/Recommendations:**  
DB-Mat.-Nr. 685377+685382, Terex Germany, Zeppelin Baumaschinen

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER WHS 2002	mineral oil	Li	white	-20/+120	white	KPF1-2K-20	1-2	320	≥ 190

### ■ STABYL HD HEAVY-DUTY EP-GREASE



For heavy-duty roller bearings under extreme operating conditions in heavy machine construction and in the cement and raw materials industry.

**Approvals/Recommendations:**  
KHD Humboldt Wedag International, Koyo Australia, Loesche, Maschinenfabrik Köppern, Outotec, Schaeffler Technologies (FAG), ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL HD	mineral oil	Li	C, MoS <sub>2</sub>	-10/+120	grey-black	KPF2K-10	2	1000	≥ 190

### ■ STABYL L 120 MULTIPURPOSE EP-GREASE



For plain and roller bearing lubrication at high loads, temperature fluctuations and difficult environmental conditions, esp. for the chemical industry, hydraulic steel engineering and construction machinery.

**Approvals/Recommendations:**  
AUMUND Fördertechnik, KHD Humboldt Wedag International, Salzgitter Maschinenbau (SMAG), Sandvik, SMS Meer, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL L 120	mineral oil	Li	–	-20/+130	natural	KP2-3K-20	2-3	200	≥ 190

### ■ STABYL L-TS MO MOS<sub>2</sub>-CONTAINING SEMI-SYNTHETIC HEAVY-DUTY GREASE



For plain and roller bearings under difficult operating conditions. Especially recommended for high pressures and low speeds. Allows longer regreasing intervals when compared to conventional greases.

**Approvals/Recommendations:**  
KHD Humboldt Wedag International, Komatsu Mining Germany, Loesche, SMS Meer, ThyssenKrupp Rothe Erde

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL L-TS MO	semi-synthetic	Li	MoS <sub>2</sub>	-30/+140	black	KPF2N-30	2	800	≥ 190

## Plain and roller bearing greases for temperatures up to +140°C

### ■ STABYL MO 500 **MOS<sub>2</sub>-CONTAINING LONG-TERM GREASE**



For plain and roller bearings of all types subjected to continuous high mechanical loads. Mechanical engineering industry, chemical industry, iron and steel works, construction machines and automotive industry.

**Approvals/Recommendations:**  
China National Materials (Sinoma),  
ThyssenKrupp Resource Technologies,  
Zeppelin Baumaschinen

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL MO 500	mineral oil	Li	MoS <sub>2</sub>	-25/+120	grey-black	KPF2-3K-25	2-3	110	≥ 190

### ■ STABYL TA **WHITE HIGH-PERFORMANCE GREASE FOR THE LUBRICATION OF TELESCOPING BOOMS**



STABYL TA is a semi-synthetic special grease based on lithium soap. Its special gliding properties are achieved by a combination of synergetically effective solid lubricants.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL TA	semi-synthetic	Li	white	-40/+140	white	KPF1N-40	1	80	≥ 190

## Plain and roller bearing greases for extreme temperatures

### ■ LAGERMEISTER CX EP 2 **CALCIUM COMPLEX-SOAP GREASE**

For lubricating plain and roller bearings on all types of machines, particularly those operating under high pressure and temperature loads, whenever moisture or water is present as well as whenever there is a danger of fretting corrosion.

**Approvals/Recommendations:**  
AUMUND Fördertechnik, General Motors

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER CX EP 2	mineral oil	Ca-X	–	-30/+150	natural	KP2N-30	2	120	≥ 250

### ■ LAGERMEISTER LX EP 2 **LONG-LIFE EP-GREASE**



For lubrication of heavily loaded plain and roller bearings of any kind of construction machinery, especially under difficult operating conditions such as high loads and increased temperatures.

**Approvals/Recommendations:**  
Gebr. Pfeiffer, KHD Humboldt Wedag International, SHW-Werkzeugmaschinen

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER LX EP 2	mineral oil	Li-X	–	-30/+160	natural	KP2P-30	2	120	≥ 250

## Plain and roller bearing greases for extreme temperatures

### ■ LAGERMEISTER XXL SPECIAL LONG-TERM GREASE WITH EXTREMELY WIDE APPLICATION RANGE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LAGERMEISTER XXL	mineral oil	special	–	-30/+160	yellowish-brown	KP2P-30	2	180	≥ 290



 Ideally suited for the lubrication of highly-loaded plain and roller bearings on all kinds of construction machinery, especially under harsh operating conditions, high loads and increased temperatures. Allows reduced number of lubricants and increased regreasing intervals.

**Approvals/Recommendations:**  
 FLSmidth MAAG Gear, KHD Humboldt Wedag International, Loesche, Sandvik, SMS Meer, Zeppelin Baumaschinen

### ■ STABYL 300 AL 1 | 2 ALUMINIUM COMPLEX SOAP EP-GREASES WITH GRAPHITE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL 300 AL 1	mineral oil	Al-X	–	-20/+150	grey-black	KPF1P-20	1	320	≥ 260
STABYL 300 AL 2	mineral oil	Al-X	–	-20/+150	grey-black	KPF2P-20	2	320	≥ 270



 For plain and roller bearings, guides at highest loads, high temperatures and considerable temperature fluctuations, e.g. in raw materials industry, iron and steel works, chemical industry, sintering plants, calanders, extruders.

### ■ STABYL AX 1 | 2 ALUMINIUM COMPLEX SOAP EP-GREASES

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL AX 1	mineral oil	Al-X	–	-20/+150	brown	KP1P-20	1	320	≥ 260
STABYL AX 2	mineral oil	Al-X	–	-20/+150	brown	KP2P-20	2	320	≥ 270



 Universal greases for many applications at highest specific loads, high temperatures and and considerable temperature fluctuations. Particularly suitable for central lubrication systems with long feed lines and low diameters.

**Approvals/Recommendations:**  
 Palfinger Systems, Sprimag Spritzmaschinenbau

### ■ STABYL EHT 2 HIGH-TEMPERATURE LONG-TERM GREASE FOR HEAVY-DUTY PLAIN AND ROLLER BEARINGS

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL EHT 2	synthetic	PTFE	–	-20/+220	beige	KPE1-2T-20	1–2	160	≥ 270



 Long-life lubrication of plain and roller bearings subjected to heavy-duty thermal and mechanical loads, e.g. in drying plants, conveying and transportation equipment, film stretching machines etc.

**Approvals/Recommendations:**  
 Bernd Münstermann

## Plain and roller bearing greases for extreme temperatures

### ■ STABYL EOS E 2 FULLY SYNTHETIC HIGH-PERFORMANCE GREASE, ESPECIALLY FOR USE IN WIND TURBINES

 	<p>For lubrication of heavy-duty plain and roller bearings in all types of wind turbines. Has a wide operating temperature range, high mechanical stability, pronounced load bearing capacity and excellent corrosion protection properties. It can be used both for the lubrication of rotor bearings as well as for the blade and azimuth bearings.</p>						<p><b>Approvals/Recommendations:</b> General Electric, IMO, Jungblut wind elements, KENERSYS, ThyssenKrupp Rothe Erde, ZS Schmieranlagen</p>		
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL EOS E 2	synthetic	Li	–	-40/+130	natural	KPE1-2K-40	1–2	320	≥ 190

### ■ STABYL LT 50 FULLY SYNTHETIC LOW-TEMPERATURE GREASE

 	<p>For plain and roller bearings at low temperatures. Meets TL-VW 778 version A.</p>						<p><b>Approvals/Recommendations:</b> FLSmidth MAAG Gear, IMO, Komatsu Mining Germany, Terex Germany, ThyssenKrupp Resource Technologies, ThyssenKrupp Rothe Erde</p>		
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL LT 50	synthetic	Li	–	-50/+130	natural	KPHC2N-50	2	105	≥ 190

### ■ STABYL LX 460 SYN SYNTHETIC HIGH-PERFORMANCE GREASE ESPECIALLY FOR USE IN WIND POWER PLANTS

 	<p>STABYL LX 460 SYN combines the advantages of synthetic base oil, a special lithium complex thickener and a state-of-the-art additive package. Thus it shows an outstanding performance throughout a wide temperature range.</p>								
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL LX 460 SYN	synthetic	Li-X	–	-40/+140	yellowish	KPHC1.5N-40	1–2	460	≥ 230

### ■ STABYL MPL 1 FULLY SYNTHETIC HIGH-PERFORMANCE GREASE

  	<p>STABYL MPL 1 is a fully synthetic EP-grease based on a high-grade calcium/lithium complex soap. A selected, special additive combination provides the product with a good oxidation resistance, excellent corrosion protection, good wear protection, and outstanding friction properties.</p>								
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL MPL 1	synthetic	Ca/Li-X	–	-40/+160	light brown	–	1	475	≥ 200

## Plain and roller bearing greases for extreme temperatures

### ■ EASYMESH HTS FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



EASYMESH HTS is a non-melting grease for the lubrication of gears and bearings in high-temperature environments. It has no drop point, very low oil separation at high temperatures and a very low evaporation rate of the base oil.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
EASYMESH HTS	synthetic	inorganic	–	-10/+180	red	–	1–2	300	–

### ■ URETHYN 160 HIGH-TEMPERATURE GREASE WITH EXCELLENT CORROSION PROTECTION

For lubrication of plain and roller bearings under difficult conditions in the chemical industry, the steel industry, in mining and in general engineering. For use in ventilators, electric motors, car wheel bearings, clutch bearings, decanter bearings, tread rollers of drying plants etc.

**Approvals/Recommendations:**  
ANDRITZ, ATEK Antriebstechnik Willi Glapiak

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
URETHYN 160	mineral oil	organic	–	-20/+160	yellow-brown	KP2-3P-20	2–3	320	≥ 220

### ■ URETHYN CC 2-1 STEEL WORKS GREASE ACC. TO SEB 181 255



For plain and roller bearings operating under the influence of temperature and humidity, e.g. roller bed bearings in continuous casting as well as in the steel and raw materials industry etc.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
URETHYN CC 2-1	mineral oil	organic	–	-20/+180	yellowish-brown	KP1R-20	1	460	≥ 230

### ■ URETHYN E 2 FULLY SYNTHETIC POLYUREA HIGH-TEMPERATURE GREASE



For long-life or lifetime lubrication of thermally highly loaded plain and roller bearings in the chemical industry, textile industry, conveying and drying equipment as well as in KTL installations in the automotive industry.

**Approvals/Recommendations:**  
Daimler, Eisenmann, EVG Lufttechnik, Sprimag Spritzmaschinenbau

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
URETHYN E 2	synthetic	organic	–	-20/+200	cream-coloured	KPE1-2S-20	1–2	100	≥ 290

## Plain and roller bearing greases for extreme temperatures

### ■ URETHYN E/M 1 | 2 SEMI-SYNTHETIC POLYUREA HIGH-TEMPERATURE GREASES

	Long-life lubrication of plain and roller bearings, e.g. electric motor bearings in textile machines, ventilator bearings in dryers and kilns, spindle bearings. Lubrication of plastics, elastomers and sealing elements.					<b>Approvals/Recommendations:</b> ANDRITZ, Bosch Rexroth, KHD Humboldt Wedag International, NEFF Gewindetriebe			
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
	URETHYN E/M 1	semi-synthetic	organic	–	-20/+180	beige	KPE1R-20	1	150
URETHYN E/M 2	semi-synthetic	organic	–	-20/+180	beige	KPE2R-20	2	150	≥ 260

### ■ URETHYN HG 0 POLYUREA GREASE WITH AN EXTREMELY WIDE OPERATING TEMPERATURE RANGE

 	For lubrication of heavy-duty hinges, joints and other connecting elements. It offers safe long-term lubrication of steel/steel sliding surfaces subject to considerable temperature fluctuations and ensures very good corrosion protection. Particularly suitable for lubrication of sintered metals and heavy-duty plain and antifriction bearings at extremely low operating temperatures. The pumpability in central lubrication systems is tested down to -50°C.					<b>Approvals/Recommendations:</b> Komatsu Mining Germany, Liebherr-International Deutschland, Terex Germany			
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
	URETHYN HG 0	synthetic	organic	–	-50/+200	light beige	–	0	40

### ■ URETHYN LT 60 FULLY SYNTHETIC POLYUREA LOW-TEMPERATURE GREASE

	For plain and roller bearings, guides, Open Gears on equipment in the low temperature range, e.g. machines and installations operating outdoors in winter service, snow rollers, cable cars, transport installations in cold-storage depots, outdoor escalators. Also suitable for high-speed roller bearings.					<b>Approvals/Recommendations:</b> Salzgitter Maschinenbau (SMAG), Sprimag Spritzmaschinenbau			
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
	URETHYN LT 60	synthetic	organic	–	-50/+140	light yellow	KE1N-50	1	23

### ■ URETHYN XHD 2 FULLY SYNTHETIC POLYUREA GREASE

  	Smooth, fully synthetic polyurea grease for extreme conditions, such as alternating speeds, temperatures and loads. URETHYN XHD 2 is especially suitable for bearings of large-size generators of wind turbines and thermally and mechanically highly loaded bearings in various industrial applications.								
	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
	URETHYN XHD 2	synthetic	organic	–	-40/+180	beige	KPFHC2R-40	2	290

## Plain and roller bearing greases for extreme temperatures

### ■ URETHYN MP 1 | 2 MINERAL OIL-BASED HIGH-TEMPERATURE POLYUREA GREASES



For plain and roller bearings at high temperatures, e.g. long-life lubrication of roller bearings in electric machines, ventilator bearings, conveyor roller bearings in continuous steel casting plants, pump, blower and compressor equipment.

#### Approvals/Recommendations:

FLSmidth MAAG Gear, Josef Fröhling, Loesche, Salzhausener Maschinenbau-technik SALMATEC, Sandvik, SMS Meer, ThyssenKrupp Resource Technologies, Zeppelin Baumaschinen

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
URETHYN MP 1	mineral oil	organic	–	-20/+180	yellowish-brown	KP1R-20	1	460	≥ 220
URETHYN MP 2	mineral oil	organic	–	-20/+180	yellowish-brown	KP2R-20	2	460	≥ 230

## Eco-friendly lubricating greases

### ■ STABYL ECO EP 2 ECO-FRIENDLY UNIVERSAL EP-GREASE



For highly loaded plain and roller bearings in mechanical engineering, hydraulic steel construction, inland navigation and in municipal areas (e.g. waste water treatment).

#### Approvals/Recommendations:

Baier + Köppel, KHD Humboldt Wedag International, Lincoln, MAN, Sandvik, Terex Germany, ThyssenKrupp Resource Technologies

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL ECO EP 2	synthetic	Li/Ca	–	-40/+120	beige	KPE2K-40	2	105	≥ 170

### ■ STABYL ECO S 12 | ECO S 12 G ECO-FRIENDLY UNIVERSAL EP-GREASE WITH SOLID LUBRICANTS



For heavy-duty plain and roller bearings in mechanical engineering, hydraulic steel construction, waste water processing and wherever water, groundwater or soil are endangered by the use of mineral oil-based products.

#### Approvals/Recommendations:

ThyssenKrupp Rothe Erde

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
STABYL ECO S 12	synthetic	Li	–	-40/+130	natural colour	KPE2K-40	2	320	≥ 190
STABYL ECO S 12 G	synthetic	Li	–	-40/+130	grey-black	KPFE1-2K-40	1–2	320	≥ 190

## Other greases for special applications

### ■ GLEITMO 577 A | C SPECIAL SYNTHETIC GREASES WITH WHITE SOLID LUBRICANTS



Special lubricating greases based on a synthetic oil and specially selected white solid lubricants for reducing friction and wear with the material pairings plastic/plastic, plastic/metal and rubber-elastomer/metal. GLEITMO 577 A and GLEITMO 577 C are used to lubricate O-rings seals, plastic adjustment devices and shock absorber seals.

**Approvals/Recommendations:**  
GLEITMO 577 A meets VW TL 52 160

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 577 A	synthetic	inorganic	–	-40/+180	yellow, opaque	–	1	85	none
GLEITMO 577 C	synthetic	inorganic	–	-40/+180	yellow, opaque	–	00	85	none

## Silicone Greases for special applications

### ■ CHEMPLEX SI 300 MEDIUM | HEAVY LOW-TEMPERATURE SILICONE GREASES



For use as low-temperature grease, particularly for electrical, electronic and precision engineering devices. For plastic/plastic or elastomer/metal pairings, e.g. in flexible rubber/metal connections. Recommended for reinforcing the sealing effect and lubrication of rotary shaft seals, packing rings, O-rings and other seals as well as for lubrication of bellows.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX SI 300 MEDIUM	Silicone	Li	–	-70/+160	white	KSI2P-70	2	70	≥ 215
CHEMPLEX SI 300 HEAVY	Silicone	Li	–	-60/+160	white	KSI3P-60	3	70	≥ 215

### ■ CHEMPLEX SI 400 LIGHT | MEDIUM HIGH-TEMPERATURE SILICONE GREASES

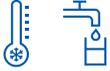


For light to normally loaded plain and roller bearings, e.g. in electric motors, fans, dryers, control devices and household equipment as well as for guides, joints and light-duty conveyor chains.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX SI 400 LIGHT	Silicone	Li	–	-30/+180	yellowish	KSI1R-30	1	80	≥ 210
CHEMPLEX SI 400 MEDIUM	Silicone	Li	–	-30/+180	yellowish	KSI2R-30	2	80	≥ 210

## Silicone greases for special applications

### ■ CHEMPLEX SI 410 MEDIUM SILICONE GREASE WITH CALCIUM THICKENER



For lubrication of light-duty bearings, particularly valves, O-rings and similar lubrication points.

**Approvals/Recommendations:**  
Drinking water approval acc. UBA guideline, French drinking water approval

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX SI 410 MEDIUM	Silicone	Ca	–	-40/+120	whitish	KSI2K-50	2	750	≥ 140

### ■ CHEMPLEX SI 511 FLUID | LIGHT | MEDIUM HIGH-TEMPERATURE SILICONE GREASES WITH POLYUREA THICKENER



For high-temperature applications such as in wheel hubs of wagons in brickworks, hot air ventilators, conveying devices and door hinges in drying furnaces, foundries, control and monitoring equipment in vulcanising works.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX SI 511 FLUID	Silicone	organic	–	-40/+200	beige	KSI00S-40	00	80	none
CHEMPLEX SI 511 LIGHT	Silicone	organic	–	-40/+200	beige	KSI1S-40	1	80	≥ 250
CHEMPLEX SI 511 MEDIUM	Silicone	organic	–	-30/+200	beige	KSI2S-30	2	80	≥ 280

### ■ CHEMPLEX SI-LK 2 LITHIUM COMPLEX SOAP-BASED SPECIALTY SILICONE GREASE



Particularly suitable for long-life lubrication of steel/plastic, plastic/plastic and steel/rubber material pairings. Good load carrying capacity due to white solid lubricants.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX SI-LK 2	Silicone	Li-X	–	-50/+200	white	KFSI2-3S-50	2–3	190	≥ 270

### ■ SILICONFETT 300 MITTEL/BLQ LOW-TEMPERATURE SILICONE GREASE, BRIDGE BEARING QUALITY



Used for plain bearings of bridges, sliding plates and other plastic/metal sliding pairs (officially tested quality).

**Approvals/Recommendations:**  
MPA Stuttgart (material testing institute of Stuttgart university).

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
SILICONFETT 300 MITTEL/BLQ	Silicone	Li	–	-70/+160	white	–	2	70	≥ 215

## Extreme temperature greases, chemically resistant

### ■ GLEITMO 591 EXTREME-TEMPERATURE PFPE/PTFE-BASED LUBRICANT



For plain and roller bearings at the highest temperatures, e.g. in fans, electric motors, transport chains and centrifuge bearings.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 591	synthetic	PTFE	white	-25/+260	white	–	2*	510	none

\*Also available: NLGI-grades 00, 1, 3

### ■ GLEITMO 593 EXTREME-TEMPERATURE PFPE/PTFE-BASED LUBRICANT



For roller bearings of low-speed conveyor chains in textile finishing plants, in drying and enamelling ovens.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 593	synthetic	PTFE	white	-25/+250	white	–	2*	510	none

\*Also available: NLGI-grades 1, 3

## Lubricating greases for rail traffic

### ■ LOCOLUB ECO ECO-FRIENDLY WHEEL FLANGE LUBRICANT



For wheel flange lubrication on railroad vehicles of all kinds and on portal cranes.

**Approvals/Recommendations:**  
Baier + Köppel, DB-Mat.-Nr. 517718,  
ÖBB-Personenverkehr, REBS Zentral-  
schmiertechnik

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
LOCOLUB ECO	synthetic	inorganic	Combination	-30/+80	dark-grey	–	000	–	none

### ■ TRAMLUB F 234 MOD 2 ECO-FRIENDLY WHEEL FLANGE LUBRICANT



For rail and wheel flange lubrication of railroad vehicles.

**Approvals/Recommendations:**  
Baier + Köppel, DB-Mat.-Nr. 106192,  
REBS Zentralschmiertechnik, Siemens

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
TRAMLUB F 234 MOD 2	semi-synthetic	inorganic	white	-25/+150	ivory	–	000	–	none

## Lubricating greases for rail traffic

### ■ TRAMLUB SSM ECO ECO-FRIENDLY GREASE TO LUBRICATE RAIL FLANKS



Designed for the lubrication of running edges and flanks of rails used by rail-borne traffic and serves to reduce friction and wear in the wheel/rail contact area.

**Approvals/Recommendations:**  
CEMAFER Gleisbaumaschinen und -geräte, DB-Mat.-Nr. 783667, Schreck-Mieves

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
TRAMLUB SSM ECO	synthetic	Li	Combination	-40/+120	grey	–	1–2	–	none

### ■ TRAMLUB F 234 G ECO-FRIENDLY SEMI-FLUID GREASE TO LUBRICATE RAIL FLANKS



For lubrication of rails and wheel flanges of railway vehicles as well as for switch lubrication.

**Approvals/Recommendations:**  
DB-Mat.-Nr. 519764

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
TRAMLUB F 234 G	synthetic	inorganic	C	-30/+100	black	–	00	–	none

### ■ TRAMLUB 384 G PLUS ECO-FRIENDLY SEMI-FLUID GREASE FOR SWITCH LUBRICATION



For sliding surfaces on switch points in marshalling yards on standard gauge railways, underground and regional express railways, tramways and industrial railways.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
TRAMLUB 384 G PLUS	synthetic	inorganic	C	-35/+100	dark-grey	–	< 000	–	none

### ■ TRAM-SILENCE | 00 ECO-FRIENDLY RAILHEAD TREATMENT AGENTS TO MINIMISE THE RISK OF SQUEALING



Are applied sparsely to the railhead in order to fight squealing noises in tracks with extreme curves.

**Approvals/Recommendations:**  
Baier + Köppel, CEMAFER Gleisbaumaschinen und -geräte, Lincoln, REBS Zentralschmiertechnik

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
TRAM-SILENCE	native	special	–	-20/+80	grey-black	–	0	–	none
TRAM-SILENCE 00	synthetic	inorganic	–	-20/+80	grey-black	–	00	–	none

## Semi-fluid greases

### ■ GEARMASTER LI 400 SEMI-SYNTHETIC, SEMI-FLUID GEAR GREASE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GEARMASTER LI 400	semi-synthetic	Li-X	–	-30/+140	brown	GP00N-30	00	150	≥ 200



 For gear motors on DIY equipment and machine tools as well as for all types of small gears.

**Approvals/Recommendations:**  
 Ammann Verdichtung, bielomatik Leuze, KHD Humboldt Wedag International, Maschinenfabrik Köppern, Outotec, SMS Meer, ThyssenKrupp Resource Technologies

### ■ GEARMASTER LXG 00 FULLY SYNTHETIC SEMI-FLUID GEAR GREASE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GEARMASTER LXG 00	synthetic	Li-X	–	-40/+160	yellowish	GPHC00P-40	00	180	≥ 220


 For lubrication of gears of a high power density. Sealing grease for struts in shock absorbers.

**Approvals/Recommendations:**  
 bielomatik Leuze, ThyssenKrupp Resource Technologies

### ■ GEARMASTER ZSA SMOOTH MINERAL OIL-BASED SEMI-FLUID GREASE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GEARMASTER ZSA	mineral oil	Li	–	-40/+120	green	GP000K-40	000	45	≥ 160



 For all lubrication points in commercial vehicles which are supplied by central lubrication systems.

**Approvals/Recommendations:**  
 bielomatik Leuze, MAN, Zeppelin Baumaschinen

### ■ URETHYN GE 00 FULLY SYNTHETIC POLYUREA SEMI-FLUID GEAR GREASE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
URETHYN GE 00	synthetic	organic	–	-40/+160	beige	GPHC00P-40	00	180	≥ 260


 Is used in fast-running small gears. It is characterised by a high mechanical and thermal stability as well as its compatibility with sealings and by its neutrality towards non-ferrous and light metals.



## PASTES AND GREASE PASTES

It is precisely in the marginal areas of grease lubrication where grease pastes exhibit their exceptional efficiency. Even with slow movements, under very high pressure, or in case of oscillatory or sudden loads, they inhibit metallic contact, thus preventing or reducing wear, such as scuffing.

Pastes and grease pastes are grease-type lubricants, which contain special solid lubricants to optimise their lubrication performance. According to their content of solid lubricants we distinguish: Greases up to 10%, grease pastes between 10% and 40%, pastes above 40%.

The primary function of the pastes and grease pastes is in areas of application which cannot be handled by grease or oil. For example, at slow speeds an inadequate lubricant separation film is formed in the contact zones of the moving parts. Metal contact and hence higher wear occur (scuffing). This wear can be avoided or reduced by the use of solid lubricants. Pastes and grease pastes with white solid lubricants play a special role. Solid white lubricants are various inorganic compounds which are capable of forming reactive layers on the metallic base material in tribo-contact under specific pressure and temperature conditions. These layers reduce friction and protect against wear, even under extreme loads.

## Overview

---

High-performance grease pastes with white solid lubricants.....	46
Lubricating and assembly pastes .....	48
High-temperature pastes.....	49
Chisel paste.....	51
PFPE pastes .....	51
Silicone pastes .....	52
Oxygen pastes .....	53
Hot temperature pastes for forming operations.....	54

---

## High-performance grease pastes with white solid lubricants

### ■ GLEITMO 582 SEMI-SYNTHETIC, ADHESIVE GREASE PASTE DISPERSION



High-performance chain grease for low and high-speed power transmitting chains, even where resistance to water, water vapour, acids and lyes is required.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 582	semi-synthetic	Li	white	-15/+120	beige	–	0	–	none

### ■ GLEITMO 585 K FULLY SYNTHETIC HIGH-PERFORMANCE GREASE



For plain and roller bearings as well as all types of lubricating points, particularly if they are subject to the risk of fretting corrosion (oscillating movements, vibrations, e.g. pitch and azimuth bearings of wind turbines).

**Approvals/Recommendations:**  
ThyssenKrupp Rothe Erde

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 585 K	synthetic	Li	white	-45/+130	beige	–	2	50	> 180

### ■ GLEITMO 585 M MINERAL OIL-BASED HIGH-PERFORMANCE GREASE



For bearings and all types of lubricating points, particularly if they are subject to the risk of fretting corrosion (oscillating movements, vibrations, e.g. bearings on large cardan shafts).

**Approvals/Recommendations:**  
KARL MAYER Textilmaschinenfabrik, Loesche

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 585 M	mineral oil	Li	white	-25/+120	beige	–	2	100	≥ 170

### ■ GLEITMO 800 WHITE HIGH-PERFORMANCE GREASE



Thin film lubrication where extreme pressures, stick-slip, oscillating movements and fretting corrosion are prevalent. For assembly, household appliances, textile machines and packaging machines.

**Approvals/Recommendations:**  
Daimler

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 800	mineral oil	–	white	-25/+100	cream	–	2	68	none

## High-performance grease pastes with white solid lubricants

### ■ GLEITMO 805 WHITE HIGH-PERFORMANCE MINERAL OIL-BASED GREASE PASTE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
 <p>For articulated bearings, spindles, plain bearings, bolts, chucks and screws which are subjected to shock loads and oscillating movements. Other typical fields of application are oscillating pins on construction machinery, telescopic beams of cranes. GLEITMO 805 has proved itself for lubrication in the incremental launching process of bridges.</p> <p><b>Approvals/Recommendations:</b> Bosch Rexroth, Daimler, DB-Mat.-Nr. 823600, Volvo Car Germany</p>	mineral oil	Li	white	-20/+110	beige	–	2	185	130

### ■ GLEITMO 805 K WHITE HIGH-PERFORMANCE SYNTHETIC OIL-BASED GREASE PASTE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
 <p>For articulated bearings, spindles, plain bearings, bolts, chucks and screws, which are subjected to shock loads and oscillating movements. Outstanding low temperature behaviour and excellent plastics compatibility.</p> <p><b>Approvals/Recommendations:</b> Volvo Car Germany</p>	synthetic	Li	white	-45/+110	beige	–	2	130	160

### ■ GLEITMO 810 WHITE HIGH-PERFORMANCE MINERAL OIL-BASED GREASE PASTE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
 <p>For ball screw drives, multi-groove profiles, ball bushes, gear couplings, threaded spindles, stainless steel threaded connections, plain bearings, household appliances, textile, office and packaging machines.</p> <p><b>Approvals/Recommendations:</b> Daimler, KARL MAYER Textilmaschinenfabrik</p>	mineral oil	Li	white	-25/+80	white	–	2	68	160

### ■ GLEITMO 815 WHITE SYNTHETIC OIL-BASED GREASE PASTE

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
  <p>For ball screw drives, multi-groove profiles, ball bushes, gear couplings, threaded spindles, stainless steel threaded connections, plain bearings, household appliances, textile, office and packaging machines. With extended temperature range (short term up to +180°C). As a spray, especially suitable for assembly and maintenance.</p> <p><b>Approvals/Recommendations:</b> MAN</p>	synthetic	inorganic	white	-45/+110	beige	–	2	115	none

## High-performance grease pastes with white solid lubricants

### ■ GLEITMO WSP 5000 WHITE HIGH-PERFORMANCE GREASE



For lubrication of machine parts such as rolling and plain bearings, axles or shafts subjected to high pressures, shock loads and vibrating or oscillating movements, especially in high ambient humidities or where there is water splashing. For reduction of friction and wear at high and low loads as well as against fretting corrosion and stick-slip.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO WSP 5000	mineral oil	Spec. Ca-X	white	-20/+140	beige	–	2	350	> 270

### ■ GLEITMO WSP 5040 WHITE HIGH-PERFORMANCE GREASE PASTE



For machine elements of all types subjected to extreme pressures, shock loads and oscillatory movements. It is particularly appropriate if the surrounding area is subject to high humidity or the effects of splash water. For sliding pairings, which have a tendency to stick slip and scuffing (fretting). At low sliding speeds and high pressures as well as where fretting corrosion is present. Application as a high-temperature screw paste up to +1,200°C.

**Approvals/Recommendations:**  
COLUMBUS McKINNON Engineered Products (Pfaff-silberblau), NEUERO Industrietechnik für Förderanlagen, Sandvik, ThyssenKrupp Steel Europe

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO WSP 5040	mineral oil	Spec. Ca-X	white	-20/+140	beige	–	2	250	> 270

## Lubricating and assembly pastes

### ■ GLEITMO 100 | 100 S ASSEMBLY PASTES BASED ON MoS<sub>2</sub>



Assembly pastes with an extremely large range of applications. For running-in lubrication of heavy-duty plain bearings, slide and guide rails, gear wheels and screw spindles as well as bolt and threaded connections. Facilitates assembly / disassembly and prevents stick-slip. From approx. +140°C dry lubrication by solid lubricants. Based on the higher MoS<sub>2</sub> share GLEITMO 100 S is suitable for extreme applications.

**Approvals/Recommendations:**  
Daimler, Josef Fröhling, KHD Humboldt Wedag International

	Base oil	Solid lubricants	Temperature range in °C	Colour	Press fit test*	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	NLGI-grade	Drop point in °C
GLEITMO 100	mineral oil	MoS <sub>2</sub>	-35/+400	black	0.1, no stick-slip	–	1–2	175
GLEITMO 100 S	mineral oil	MoS <sub>2</sub>	-35/+400	black	0.1, no stick-slip	–	1–2	none

**\*Press fit test:** The press fit test serves for the practical assessment of lubricants in the low sliding speed and high pressure range. A typical test for the capability assessment of assembly pastes. During the press fit test a bolt (outside diam: 19,075 mm) is pressed into a bushing (inside diam: 19,050 mm). During the test it is obvious where and when stick-slip occurs. The insertion or extraction force and the static and dynamic coefficients of friction are determined. Additionally, the specific surface pressure is determined from the change in the external diameter of the sleeve.

## Lubricating and assembly pastes

### ■ GLEITMO 700 MOS<sub>2</sub> PASTE WITH SYNTHETIC OIL



For use in all areas of high-temperature lubrication technology, where oils and greases cannot be used e.g. kiln bearings (plain and roller bearings). Also for assembly and running-in processes. From approx. +200°C dry lubrication by solid lubricants (carrier oil evaporates leaving no residue).

	Base oil	Solid lubricants	Temperature range in °C	Colour	Press fit test*	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	NLGI-grade	Drop point in °C
GLEITMO 700	synthetic	MoS <sub>2</sub>	-40/+400	black	0.12, no stick-slip	180	1	none

**\*Press fit test:** The press fit test serves for the practical assessment of lubricants in the low sliding speed and high pressure range. A typical test for the capability assessment of assembly pastes. During the press fit test a bolt (outside diam: 19,075 mm) is pressed into a bushing (inside diam: 19,050 mm). During the test it is obvious where and when stick-slip occurs. The insertion or extraction force and the static and dynamic coefficients of friction are determined. Additionally, the specific surface pressure is determined from the change in the external diameter of the sleeve.

## High-temperature pastes

### ■ GLEITMO 155 METAL-FREE HIGH-TEMPERATURE PASTE



For turbine bolts, high-temperature screws, especially stainless steel screws in the chemical industry, in refineries and power stations. Release agent for bolted flanges in the high-temperature range.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 155	synthetic	–	white	-30/+1200	white	–	1–2	–	none

### ■ GLEITMO 160 NEU UNIVERSAL COPPER PASTE



For lubrication of turbine bolts, high-temperature screws and as release agent for flange connections in the high temperature range.

**Approvals/Recommendations:**  
FLSmidth MAAG Gear

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 160 NEU	mineral oil	Al-X	Combination	-30/+1100	copper	–	2	–	260

## High-temperature pastes

### ■ GLEITMO 165 METALLURGICALLY-COMPATIBLE HIGH-TEMPERATURE SCREW PASTE



For lubrication of turbine bolts, high-temperature screws and for lubrication of bolts, slide rings, sliding rails at high temperatures. No formation of oxide layers.

**Approvals/Recommendations:**  
VW, Volvo Car Germany

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 165	synthetic	–	Combination	-40/+1200	grey-blue	–	2	–	none

### ■ GLEITMO 705 HIGH-TEMPERATURE LUBRICATING PASTE



Lubrication of low speed bearings, bolts, hinges, slipper pads and slide rails on firing, drying and annealing systems. Facing for casting ladles, tools, funnels and spouts in aluminium die casting.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 705	synthetic	–	C, white	-20/+1000	grey	–	2	–	none

### ■ PBC 1574 UNIVERSALLY APPLICABLE HIGH-TEMPERATURE PASTE WITH METALLIC SOLIDS



PBC 1574 is used for the prevention of seizures on screw threads, linkages, pivots, flanges and mating surfaces subject to high temperatures, fretting corrosion, salt water and aggressive environmental media. The product is used to lubricate brake callipers and prevent corrosion of disc brakes. PBC 1574 is not electrically conductive and does not affect the sensors of ABS systems.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
PBC 1574	mineral oil	inorganic	combination	-20/+1200	golden	–	–	–	none

### ■ PBC TP492 HIGH-TEMPERATURE SCREW PASTE



As a protective grease PBC TP492 acts as a lubricating seal to prevent ingress of water and corrosive solutions. It may also be used as a jointing compound and anti-squeal medium. Applications can be found in variable pitch blade fans and king pin thrust bearings of heavy trucks, and universal joints. PBC TP492 acts as an anti-fretting agent between contact surfaces with oscillating movements.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
PBC TP492	mineral oil	inorganic	combination	-20/+1200	grey	–	–	250	none

## Chisel paste

### ■ MEISSELPASTE SPECIAL PASTE BASED ON COPPER



Copper-coloured mineral oil-based paste with aluminium complex soap and solid lubricants to lubricate socket tools and bushings of pneumatic and compressed air tools with weights ranging from 75 to 6,000kg, pneumatic drills and other power tools. Can also be used under water and at high temperatures.

**Approvals/Recommendations:**  
Baier + Köppel, DELIMON, Lincoln

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
MEISSELPASTE	mineral oil	Al-X	Combination	-20/+1100	copper	–	2	–	260

## PFPE pastes

### ■ CARBAFLO 2160 PERFLUORINATED HIGH-TEMPERATURE GREASE



For slide rails and high-temperature, low-speed bearings. Resistant to most acids, lyes, and other environmental impacts. Based on its excellent dielectric properties it is suitable for the use in electric components. Also suitable for the assembly of machine components.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CARBAFLO 2160	synthetic	–	white	-60/+260	white	–	2	310	none

### ■ CARBAFLO 3631 HIGH-TEMPERATURE GREASE RESISTANT TO CHEMICALS



The paste has excellent extreme pressure properties across the whole temperature range and offers a long-term wear prevention, thus resulting in a considerable increase in machine component life.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CARBAFLO 3631	synthetic	–	white + black	-60/+260	black	–	2	310	none

## PFPE pastes

### ■ GLEITMO 591 EXTREME-TEMPERATURE PFPE/PFTE-BASED LUBRICANT

For plain and roller bearings at the highest temperatures, e.g. in fans, electric motors, transport chains and centrifuge bearings.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 591	synthetic	PTFE	white	-25/+260	white	–	2*	510	none

\*Also available: NLGI-grades 00, 1, 3

### ■ GLEITMO 593 EXTREME-TEMPERATURE PFPE/PFTE-BASED LUBRICANT



For roller bearings of low-speed conveyor chains in textile finishing plants, in drying and enamelling ovens.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 593	synthetic	PTFE	white	-25/+250	white	–	2*	510	none

\*Also available: NLGI-grades 1, 3

## Silicone pastes

### ■ CHEMPLEX 746 SILICONE PASTE WITH WHITE SOLID LUBRICANTS



Lubrication of plastic/plastic and plastic/metal pairings, such as sealings, bearings, guiding devices, plastic-coated Bowden cables. Suitable for drinking water fittings.

**Approvals/Recommendations:**  
Drinking water approval acc. to UBA guideline

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX 746	Silicone oil	inorganic	white	-40/+175	white	–	1–2	750	none

### ■ CHEMPLEX 750 HIGH-CONSISTENCY SILICONE PASTE



For lubrication of plastic/plastic and plastic/metal pairings, rubber parts, O-rings, elastomers. Sealing agent for taps and valves. Insulation of electric systems and installations. Serves as a humidity protector and is suitable for applications in gas units.

**Approvals/Recommendations:**  
DVGW for gas applications as per DIN EN 377, Drinking water approval acc. to UBA guideline

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
CHEMPLEX 750	Silicone oil	inorganic	none	-40/+200	colourless	–	3–4	10000	none

## Oxygen pastes

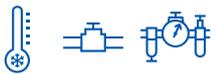
### ■ GLEITMO 591 (OX) | 593 (OX) OXYGEN-RESISTANT PASTE, TESTED AT >60 BAR AT 60°C OXYGEN TEMPERATURE



For oxygen applications. Resistant to many aggressive chemicals and excellent compatibility with various types of rubbers and plastics.  
**Please contact us for more information.**

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 591 (OX)	synthetic	PTFE	white	-25/+260	white	–	2	–	none
GLEITMO 593 (OX)	synthetic	PTFE	white	-25/+250	white	–	2	–	none

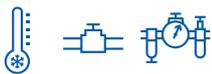
### ■ GLEITMO 595 OXYGEN-RESISTANT PASTE, TESTED AT >250 BAR AT 60°C OXYGEN TEMPERATURE



First lubrication and maintenance of valves for oxygen bottles and of equipment for the oxygen producing and processing industries. Used in diving. Physiological respiratory certificate is available. Also tested with gaseous oxygen at higher temperatures and with liquid oxygen.  
**Please contact us for more information.**

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 595	synthetic	PTFE	white	-60/+250	white	–	3	–	none

### ■ GLEITMO 599 OXYGEN-RESISTANT PASTE, TESTED AT >400 BAR AT 60°C OXYGEN TEMPERATURE



First lubrication and maintenance of valves for oxygen bottles and of fittings and equipment for the oxygen producing and processing industries. The tested oxygen pressures significantly exceed 400 bar (at 60°C). With this lubricant it is therefore even possible for example to lubricate the valves of 300 bar oxygen bottles safely and reliably. Ideal for diving applications. Physiological respiratory certificate is available. Also suitable for higher oxygen temperatures.  
**Please contact us for more information.**

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 599	synthetic	special	white	-40/+250	white	–	3	–	none

## Hot temperature pastes for forming operations

### ■ GLEITMO 820 WHITE PASTE FOR HOT FORMING



GLEITMO 820 is used for drop forging, hot extrusion, hot rolling, hot bending. Also ideal for lubricating the column guides of the presses.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 820	mineral oil	–	white	-20/+1150	white	–	1–2	–	none

### ■ GLEITMO 821 WHITE LUBRICATING FLUID FOR HOT FORMING



GLEITMO 821 is used for drop forging, hot extrusion, hot rolling, hot bending. Can also be used as thinner for GLEITMO 820.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 821	mineral oil	–	white	-20/+1150	white	–	–	–	none

### ■ GLEITMO 830 WHITE SOLID LUBRICANT PASTE FOR COLD FORMING



GLEITMO 830 is used in cold forming processes, where commonly used lubricants are not satisfactory. GLEITMO 830 is proven for most demanding requirements in stamping, drawing, stretch-forming, bending, rolling, and forming of profiles. GLEITMO 830 is suitable for different materials such as austenitic and ferritic steels, copper, aluminium, zinc and their alloys.

	Base oil	Thickener	Solid lubricants	Temperature range in °C	Colour	Classification	NLGI-grade	Base oil viscosity at 40°C [mm <sup>2</sup> /s]	Drop point in °C
GLEITMO 830	mineral oil	–	white	-25/+100	cream	–	2	–	none



## HMP FILMS AND SOLID FILM LUBRICANTS (SFL)

Solid film lubricants and HMP film lubricants are suitable for a multitude of materials, such as metals, plastics, and elastomers. After application on surfaces, solid film lubricants and HMP film lubricants enable a reliable, clean and dry lubrication, in particular wherever greases and oils are unwanted or not practicable.



HMP films are colloidal dispersions of High Molecular Polymers (HMP) in water. They are preferably applied in dipping procedures. After drying they create a firmly adhering, dry, and touch-proof lubricating film. HMP films are mainly used for the coating of fasteners (screws/bolts, nuts and washers) in order to reduce the coefficient of friction and to minimize its variation. Solid film lubricants (SFL) however are tough, bonded coatings characterized by an outstanding resistance to pressure and temperatures. Thanks to their dry, clean and non-aging surface characteristics they allow the storage of coated metal, plastics and elastomer parts ready for assembly.

Solid film lubricants from FUCHS LUBRITECH have excellent lubricating and protective properties. Their application fields range from the improvement of running-in processes to lifetime lubrication, from prevention of stick-slip to prevention of cold weld and corrosion.

## Overview

---

HMP films .....	58
Cleaning agents for HMP films .....	60
Solvent-based solid film lubricants (SFL) .....	61
Water-based solid film lubricants (SFL) .....	63
GLEITMO colour range .....	65

---

## HMP films

### ■ GLEITMO 300 GREASE AND OIL-FREE LUBRICANT FILM



Solvent-containing universal lubricant for industrial and household applications. For calibration, switches and mechanisms of any kind. For plastics, elastomers, zippers, blinds, window fittings, screws etc.

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 300	–	-40/+50	colourless, transparent	–	–

### ■ GLEITMO 603 DRY FILM LUBRICANT FOR COATING OF BULK PARTS

For bulk part coating of nuts and bolts in the automotive industry. To obtain friction coefficients with small deviation at an elevated level of friction coefficients.

**Approvals/Recommendations:**  
Bosch Rexroth, Volvo Car Germany

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 603	water	-40/+80	colourless	0.15	8.5–9.5

### ■ GLEITMO 605 DRY FILM LUBRICANT FOR COATING OF BULK PARTS

For bulk part coating of e.g. nuts and bolts. For chipboard and automotive screws. To obtain friction coefficients with small deviation as per VDA (association of German automotive industry) requirements.

**Approvals/Recommendations:**  
Bosch Rexroth, General Motors, MAN, Renault Deutschland, VOLKSWAGEN, Volvo Car Germany

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 605	water	-40/+110	colourless-bright	0.11	approx. 8.5–9.5

### ■ GLEITMO 615 DRY FILM LUBRICANT FOR COATING OF BULK PARTS

For lubrication of stainless steel nuts and bolts, thread forming and self-tapping screws, rivets, sheet metal screws, chipboard screws and O-ring assembly.

**Approvals/Recommendations:**  
Adolf Würth

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 615	water	-40/+110	colourless	0.09	5.0–6.0

### ■ GLEITMO 625 DRY FILM LUBRICANT FOR COATING OF BULK PARTS

For lubrication of stainless steel nuts and bolts, thread-forming and self-tapping screws, rivets, sheet metal screws, chipboard screws.

**Approvals/Recommendations:**  
VOLKSWAGEN

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 625	water	-40/+110	silk dull	0.08	5.0–6.0

## HMP films

### ■ GLEITMO 627 DRY FILM LUBRICANT WITH PTFE FOR COATING OF BULK PARTS

	For lubrication of stainless steel nuts and bolts, thread-forming and self-tapping screws, rivets, sheet metal screws. To obtain very uniform friction coefficients.				<b>Approvals/Recommendations:</b> Volvo Car Germany
	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 627	water	-40/+110	silk dull	0.08	5.0–6.0

### ■ GLEITMO 2345 V DRY FILM LUBRICANT

	For lubrication of elastomers (O-rings, profile gaskets, sleeves, bolts) as well as for noise reduction.				
	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO 2345 V	water	-40/+70	transparent/silk dull	0.07–0.08	8.5–9.5

### ■ GLEITMO HMP 8420 DRY FILM LUBRICANT WITH ANTI-CORROSION SEALER

	For bulk part coating of nuts and bolts in the automotive industry. To obtain friction coefficients with small scattering ranges as per VDA requirements (association of German automotive industry) in combination with an excellent corrosion protection on zinc and zinc-alloy coatings.				
	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO HMP 8420	water	-40/+110	colourless, bright	0.10–0.11	8.5–9.5

### ■ GLEITMO HMP 8040 DRY FILM LUBRICANT FOR COATING OF BULK PARTS

	For bulk part coating of thread-forming and self-tapping screws.				
	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO HMP 8040	water	-40/+110	silk dull	0.09	5.0–6.0

### ■ GLEITMO HMP 9020 MOS<sub>2</sub> DRY FILM LUBRICANT

	For the lubrication of bulk parts like stud-bolts, nuts, sheet metal screws and tension springs. For hot galvanized screws, the standard DIN EN ISO 14399 is met by using GLEITMO HMP 9020 as lubricating coating.				
	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO HMP 9020	water	-70/+350	black	0.09	8.0

## HMP films

### ■ GLEITMO HMP 9020 K $\text{MOS}_2$ DRY FILM LUBRICANT

GLEITMO HMP 9020 K is suitable for the lubrication of bulk parts like stud-bolts, nuts, sheet metal screws and tension springs. For hot galvanized high-tensile fasteners, the standard for lubricant requirements DIN EN 14399 is fulfilled by using of GLEITMO HMP 9020 K. GLEITMO HMP 9020 K is an advance development of GLEITMO HMP 9020 with enhanced corrosion protection properties.

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO HMP 9020 K	water	-70/+250	black	0.11	8.0

### ■ GLEITMO HMP 9021 $\text{MOS}_2$ DRY FILM LUBRICANT

For lubrication of bulk parts like stud-bolts, nuts, sheet metal screws and tension springs. For hot galvanized high-tensile fasteners, the standard for lubricant requirements DIN EN ISO 14399 is met by using GLEITMO HMP 9021.

	Thinner	Temperature range in °C	Colour	Coefficient of friction <sup>1)</sup>	pH-value
GLEITMO HMP 9021	water	-70/+350	black	0.09	8.0

<sup>1)</sup>  $\mu$  value at the initial tightening strain, mixture ratio 1:3, bolt test according to DIN EN ISO 16047 with DIN 933 M 12, 8.8 Zn screws. Tightening strain of 75 % of the material elastic limit. Further friction coefficients available on request.

## Cleaning agents for HMP films

### ■ GLEITMO HMP CLEANER CLEANING AGENT FOR DRY HMP FILMS

Suitable for removing dry HMP films on incorrectly coated screws and application equipment (exception: GLEITMO 603).

## Solvent-based solid film lubricants (SFL)

### ■ GLEITMO 900 AIR DRYING, $\text{MoS}_2$ SOLID FILM LUBRICANT



For dry lubrication of nuts and bolts made of stainless steel, cylinder head screws, dowel pins. For cold forming e.g. cold extrusion as well as for joint bearings at high temperatures.

**Approvals/Recommendations:**  
Volvo Car Germany

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 900	inorganic	METABLANC V-901	$\text{MoS}_2$ , graphite	-180/+400	grey-black	approx. 15

### ■ GLEITMO 920 AIR DRYING, $\text{MoS}_2$ SOLID FILM LUBRICANT



For dry lubrication of screws, thrust washers, gear wheels, bearing pins, slide rails and for metal forming.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 920	organic	GLEITMO 920 V	$\text{MoS}_2$ , graphite	-180/+250	grey-black	approx. 10

### ■ GLEITMO 960 AIR DRYING GRAPHITE SOLID FILM LUBRICANT FOR HIGH-TEMPERATURE USE



For dry lubrication of threaded connections as well as for metal forming, such as cold extrusion, reducing. Short-term use up to +600°C. Free of sulphur.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 960	inorganic	METABLANC V-901	graphite	-180/+350	black	approx. 12

### ■ GLEITMO 980 AIR DRYING PTFE SOLID FILM LUBRICANT



Dry lubrication of a wide variety of material pairings, such as metals, plastics, elastomers. Release agent for rubber/rubber and rubber/metal.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 980	inorganic	METABLANC V-901	PTFE	-180/+250	silk dull	approx. 30

### ■ GLEITMO SFL 9540 THERMOSETTING $\text{MoS}_2$ SOLID FILM LUBRICANT

For dry lubrication of gears, bearing bushings and pins, rollers, spindles (on hoisting equipment). For running-in optimisation, emergency and lifetime lubrication.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9540	organic	GLEITMO 9540 V	$\text{MoS}_2$ , graphite	-180/+300	grey-black	approx. 12

## Solvent-based solid film lubricants (SFL)

### ■ GLEITMO SFL 9550 THERMOSETTING $\text{MoS}_2$ SOLID FILM LUBRICANT

For lifetime lubrication in combination with an excellent corrosion protection. It is suitable for bulk part coating (e.g. screws, pins, lock parts).

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9550	organic	GLEITMO 950 V	$\text{MoS}_2$ , graphite	-180/+300	grey-black	approx. 15

### ■ GLEITMO SFL 9560 THERMOSETTING WHITE PTFE SOLID FILM LUBRICANT

For metal lubrication under high abrasive loads such as adjusting mechanisms (spindles and slide rails) and machine components requiring dry lubrication and good corrosion protection.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9560	organic	GLEITMO 950 V	PTFE	-70/+140	white	approx. 10

### ■ GLEITMO SFL 9563 THERMOSETTING PTFE SOLID FILM LUBRICANT

For lifetime lubrication of machine elements at average pressures (plain bearings, spindles, slid rails, etc.) requiring dry lubrication and good corrosion protection.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9563	organic	GLEITMO 950 V	PTFE, $\text{MoS}_2$	-70/+200	black	approx. 10

### ■ GLEITMO SFL 9580 THERMOSETTING PTFE SOLID FILM LUBRICANT WITH NON-STICK EFFECT

Highly efficient non-stick coating for metallic materials. For dry lubrication of components under low loads.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9580	in-/organic	GLEITMO 950 V	PTFE	-70/+250	black	approx. 10

### ■ GLEITMO SFL 9680 AIR DRYING 3-COMPONENT SOLID FILM LUBRICANT

For dry lubrication of elastomers (O-rings, profiles). Enables very low friction coefficients thus facilitating assembly.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9680	in-/organic	METABLANC V-901	–	-70/+180	transparent, colourless	20

## Water-based solid film lubricants (SFL)

### ■ GLEITMO 905 AIR DRYING MOS<sub>2</sub> SOLID FILM LUBRICANT

For dry lubrication of nuts and bolts made of stainless steel, cylinder head screws, cylinder head gaskets, dowel pins as well as for cold forming e.g. cold extrusion.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 905	inorganic	water	MoS <sub>2</sub> , graphite	-180/+400	grey-black	approx. 20

### ■ GLEITMO SFL 9025 AIR DRYING MOS<sub>2</sub> SOLID FILM LUBRICANT

For lubrication of screws, thrust washers, disc springs, gear wheels, bearing pins, slide rails and for metal forming.

**Approvals/Recommendations:**  
GLEITMO SFL 9025 corresponds to VW standard TL 52 105

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9025	organic	water	MoS <sub>2</sub> , graphite	-180/+250	grey-black	approx. 25

### ■ GLEITMO 935 AIR DRYING MOS<sub>2</sub> SOLID FILM LUBRICANT

For dry lubrication of screw caps of oxygen bottles, adjusting mechanisms and screws.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 935	organic	water	MoS <sub>2</sub> , graphite	-180/+250	grey-black	approx. 25

### ■ GLEITMO SFL 9085 AIR DRYING MOS<sub>2</sub> SOLID FILM LUBRICANT

For dry lubrication of metals (fasteners), plastics and elastomers under low loads. Initial lubrication of injection-moulded parts (cams, stop levers, stop guides). Suitable for the use in food industry.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9085	organic	water	PTFE	-180/+250	silk dull	approx. 20

### ■ GLEITMO SFL 9070 AIR DRYING PTFE SOLID FILM LUBRICANT

For dry coating of various material combinations especially of plastics, rubbers and leather. Allows smooth running, protects against wear, and prevents squeaking noise caused by stick slip of plastic combinations in a car's interior.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9070	organic	water	PTFE	-70/+180	colourless, milky	approx. 10

## Water-based solid film lubricants (SFL)

### ■ GLEITMO SFL 9065 THERMOSETTING PTFE SOLID FILM LUBRICANT

For lifetime lubrication of components where high requirements have to be met in terms of wear resistance combined with good corrosion protection. Furthermore GLEITMO SFL 9065 can be used to coat bulk parts (pins, screws/bolts, disc springs, etc.).

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO SFL 9065	organic	water	PTFE	-180/+250	grey-black	approx. 10–15

### ■ GLEITMO 2332 V THERMOSETTING SOLID FILM LUBRICANT



For dry lubrication of screws used in high-temperature applications (e.g. car exhaust systems). Enables easy loosening after thermal stress.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO 2332 V	in-/organic	water	Special	-180/+1200	grey-black	approx. 15

### ■ GLEITMO RLC 3000 THERMOSETTING PTFE SOLID FILM LUBRICANT FOR DRINKING WATER APPLICATIONS



For dry lubrication of seals in drinking water applications. GLEITMO RLC 3000 meets the requirements of the German Federal Environmental Agency ("UBA") for organic coatings in drinking water applications. For dry lubrication of different material combinations, e.g. of metals, plastics, rubbers.

**Approvals/Recommendations:**  
Drinking water contact acc. to UBA guideline

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO RLC 3000	organic	water	PTFE	-70/+250	colourless, milky	approx. 10

### ■ GLEITMO RLC 3100 2-COMPONENT WATER-BASED PTFE SOLID FILM LUBRICANT

For lubrication of elastomers and polymer materials GLEITMO RLC 3100 can be pigmented with colour additives from the "GLEITMO Colour" range in order to achieve coloured coatings, e.g. on O-rings.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO RLC 3100	organic	water	PTFE	-70/+250	colourless, milky	approx. 20

## Water-based solid film lubricants (SFL)

### ■ GLEITMO RLC 4000 THERMOSETTING POLYSILOXANE SOLID FILM LUBRICANT

Used for a dry lubrication of elastomers. GLEITMO RLC 4000 allows very low friction coefficients, thus facilitating the assembly of components, especially O-rings.

	Binder	Thinner	Solid lubricants	Temperature range in °C	Colour	Yield in m <sup>2</sup> /liter solid film lubricant
GLEITMO RLC 4000	in-/organic	water	–	-70/+250	transparent, colourless	approx. 20

## GLEITMO colour range

### ■ GLEITMO COLOUR RANGE PIGMENT CONCENTRATES FOR COLOURING GLEITMO SOLID FILM LUBRICANTS

The GLEITMO Colour range includes concentrates for the colouring of water-based GLEITMO solid film lubricants (e.g. GLEITMO RLC 3100). The pigment makes it easier to provide evidence of coating on coated parts and allows homogeneous, coloured coatings.

	black	blue	green	red	white	yellow
Colour code	BL 01	BU 01	GN 01	RD 01	WH 01	YE 01

## **RUST LOOSENERS AND TECHNO-CHEMICAL PRODUCTS**

The group of FUCHS LUBRITECH techno-chemical products includes lubricant powders, cleaning agents, thinners and, last but not least, rust looseners and corrosion preventive.

Rust looseners and corrosion-protection products still have an important role, even in today's high-tech industry. They are essential for the loosening of threaded connections. Parts which are susceptible to corrosion are protected against corrosion either permanently or during transportation.

Cleaners are designed for clean, grease-free cleaning of parts. This de-greasing is indispensable for ensuring a proper, subsequent greasing or coating with solid film lubricants. Our cleaners are also very suitable for cleaning vehicle chassis.

The thinners can be used during production or for dispersing grease, grease pastes and pastes. At the same time they are suitable for cleaning coating equipment (e.g. spray guns, centrifugal containers).

## Overview

---

Rust looseners .....	68
Corrosion protection media .....	68
Cleaners .....	69
Solid lubricant powders.....	70

---

## Rust looseners

### ■ FERROFORM LOCC RAPID RUST LOOSENER BASED ON MINERAL OIL

	<p>For non-destructive loosening of rusted and seized connections. Creeps under water. As rust loosener, fine lubricant and slight protection against corrosion for all technical and household areas.</p>	<b>Base oil</b>	<b>Colour</b>
FERROFORM LOCC		mineral oil	light coloured

### ■ FERROFORM ECO LOCC ECO-FRIENDLY SYNTHETIC RAPID RUST LOOSENER

	<p>Application areas like FERROFORM LOCC.</p>	<b>Base oil</b>	<b>Colour</b>
FERROFORM ECO LOCC		synthetic	yellowish

### ■ FERROFORM ECO 871 SPRAY ECO-FRIENDLY SYNTHETIC RAPID RUST LOOSENER

	<p>For non-destructive loosening of rusted and seized connections, knuckle joints, levers, contacts etc. Displaces water. Exceptional creep properties and high lubrication efficiency. Available only as a spray.</p>	<b>Base oil</b>	<b>Colour</b>
FERROFORM ECO 871 SPRAY		synthetic	greenish clear

### ■ FERROFORM SUPER 7 SPECIAL RUST LOOSENER WITH SOLID LUBRICANT PACKAGE

	<p>Multi-purpose rust loosener incorporating a combination of resin and acid free penetrating oils. Ideal for repairing and maintaining severely rusted and seized parts in mechanical components and hydraulic equipment.</p>	<b>Base oil</b>	<b>Colour</b>
FERROFORM SUPER 7		mineral oil	black

## Corrosion protection media

### ■ DECORDYN ECO RAPIDLY BIODEGRADABLE CORROSION PROTECTION CONCENTRATE

	<p>Corrosion protection of all untreated surfaces of machines and equipment, e.g. in waste water processing plants, municipal works, the chemical industry. If necessary, the concentrate can be diluted with METABLANC V-D 100.</p>		
DECORDYN ECO			

## Corrosion protection media

### ■ DECORDYN HF 91 NON-SLIP UNIVERSAL CORROSION PROTECTION WAX FOR EXTERIOR PROTECTION

Long-time corrosion protection of e.g. rail mounts, small steel parts, bolt threads in railroad track construction. Also for bare steel components in the mechanical engineer and vehicle manufacturing. Meets the requirements of the German Railroad Authority for corrosion protection aids. Also suitable for underfloor protection of vehicles.

DECORDYN HF 91

### ■ DECORDYN W SPRAY PRESERVATION FLUID



For preserving precision equipment, tools and devices. It's compatibility with relubricating agents guarantees that the preserved parts are ready for installation without further cleaning. Only available as a spray.

DECORDYN W SPRAY

### ■ DECORDYN 350 NON-SLIP ANTICORROSION FILM WITH GOOD LUBRICATING PROPERTIES



For long-term preservation of intermediately stored machine parts, plastic injection moulds, casting moulds, stamping, bending and drawing tools which have to be kept ready for use at all times. Does not have to be removed before use of the parts.

DECORDYN 350

**Approvals/Recommendations:** RUD Ketten

## Cleaners

### ■ METABLANC RAPID METAL CLEANER



For obtaining oil and grease-free metal surfaces which are to be treated subsequently with lubricating pastes, greases, solid film lubricants or screw locking agents. For maintenance, repair and assembly: brakes, axles, shafts, bearings, gears, slide rails and screws.

METABLANC

### ■ CTP M ECO ECO-FRIENDLY UNIVERSAL CLEANER



For cleaning vehicles, construction machinery, machines and installations, hall floors etc. Also suitable for cleaning of heavily soiled points of slide pads and lubricating channels of track-side systems for railways. Can be diluted with water.

CTP M ECO

### ■ METABLANC PFPE SPECIAL PFPE CLEANER

Suitable for the cleaning of components for which a lubrication with perfluorinated lubricants is intended.

METABLANC PFPE

## Solid lubricant powders

### ■ POWDER GRAPHITE F

POWDER Graphite F is used as a solid lubricant for liquid and pasty lubricants, plastics and sliding materials.

	Colour	Bulk weight in g/dm <sup>3</sup>	Purity in %	Ambient temperature in °C	Press fit test, stat. friction coefficient
POWDER Graphite F	black	140	99.5	–	–

### ■ POWDER MoS<sub>2</sub> F

POWDER MoS<sub>2</sub> F is used for cold forming and dry lubrication, if lubrication with oils or greases is not possible. For incorporation in plastics, carbon products, powder metals and lubricants. For economical application on small bulk parts.

	Colour	Bulk weight in g/dm <sup>3</sup>	Purity in %	Ambient temperature in °C	Press fit test, stat. friction coefficient
POWDER MoS <sub>2</sub> F	grey-blue	–	–	-180/+400	approx. 40

### ■ POWDER MoS<sub>2</sub> S



POWDER MoS<sub>2</sub> S is used for cold forming and dry lubrication, if lubrication with oils or greases is not possible. For incorporation in plastics, carbon products, powder metals and lubricants. For economical application on small bulk parts.

	Colour	Bulk weight in g/dm <sup>3</sup>	Purity in %	Ambient temperature in °C	Press fit test, stat. friction coefficient
POWDER MoS <sub>2</sub> S	grey-blue	–	–	-180/+350	approx. 15





## GREASE GUNS FOR SR SCREW CARTRIDGES

FUCHS LUBRITECH's extensive range of high-performance lubricants is supplemented by various application devices. These include various grease guns, the universally usable Teejet nozzle and application devices for die-casting.



The "SYSTEM REINER" single-handed, the HD-Two-handed and DFP 500/FLT guns guarantee clean and safe lubrication of high-quality machines through long lubrication lines, large quantities of lubricants and large volumes of lubricant per stroke. The "SYSTEM REINER" cartridge (with screw closure, contents: 500 g) is particularly simple to operate.

#### Overview

---

Grease guns for SR screw cartridges.....74

---

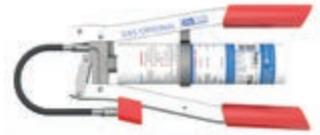
## Grease guns for SR screw cartridges

### ■ HD-TWO-HANDED GREASE GUN



For easy, clean and accurate lubrication of high-quality machines with long lubricating lines, large quantities of lubricant and large volumes of lubricant per stroke. Obtainable pressure: 400 bar. TÜV (German technical inspecting agency) approved and with GS mark.

- Weight: 950 g only
- Maximum obtainable pressure: 400 bar
- Complete discharge of the SR cartridge by special piston shape



### ■ SINGLE-HANDED GREASE GUN



For easy, clean and accurate lubrication of high-quality machines. TÜV (German technical inspecting agency) approved and with GS mark.

- Up to 150 bar pressure in one hand operation
- Complete discharge of the SR cartridge by special piston shape



### ■ DFP 500/FLT PNEUMATIC GREASE GUN



The professional pneumatic grease gun is the ideal solution to lubricate all kinds of machinery, commercial vehicles and construction machinery. It is supplied with reinforced rubber hose and 4-jawed professional nozzle.

- Practical single-hand operation
- Controlled grease feed using a single outlet
- Approx. 1.2 cm<sup>3</sup>/stroke at 250 bar
- Input pressure 2–10 bar, transmission ratio 1:30
- Connecting thread M 10x1



## Grease guns for SR screw cartridges

### ■ PORTABLE ELECTRIC GREASE GUN 14.4 LS-SR



The battery powered grease gun generates a powerful stroke through the reduction gear and an eccentric. This makes it possible to pump greases with NLGI grades 000 to 2 (as per DIN 51818) up to an operating pressure of around 400 bar. Simply screw in the SR cartridge and you are ready to go. Large quantities of lubricant can be applied easily and without effort. A spare rechargeable battery is also available.

- Operating pressure: 400 bar (limited by pressure relief valve)
- Delivery capacity: approx. 100 g/min
- 14.4 V Li-ion battery, 3.000 mAh
- Charging time: approx. 2 hrs
- Spare rechargeable battery



### ■ LUBEJET-ECO GREASE SPRAY GUN FOR THE LUBE-SHUTTLE CONTAINER

The pneumatic grease spray gun allows greases to be sprayed directly from the Lube-Shuttle system cartridge without using any propellant or other chemical additives such as solvents. Well-established application is the lubrication of the telescoping boom of mobile telescoping cranes with STABYL TA.

- Maximum operating pressure 5 bar
- Use only with Lube-Shuttle system cartridges



### ■ CLS FILLING DEVICE



The CLS filling device is used for the simple filling of central lubrication systems with the "System Reiner" cartridge. The SR cartridge is screwed into the mouthpiece. The lever transmission of the draw-off mechanism enables easy and effort-saving operation. The coupling plug, which is available for central lubrication systems (e.g. BEKA Max), ensures a secure connection to the mouthpiece of the CLS filling device.

- Coupling plug (M20 x 1.5)



## Innovative lubricants need Experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced LUBRITECH engineers will be glad to advise on products for the application in question and also on our full range of lubricants.



Contact:



**Global Headquarters**  
FUCHS LUBRITECH GmbH  
Werner-Heisenberg-Strasse 1  
67661 Kaiserslautern/Germany  
Tel.: +49 (0) 6301 3206-0  
[info@fuchs-lubritech.de](mailto:info@fuchs-lubritech.de)  
[www.fuchs.com/lubritech](http://www.fuchs.com/lubritech)

The information contained in this product information is based on the experience and expertise of FUCHS LUBRITECH GmbH in the development and manufacturing of lubricants, and represents the current cutting edge. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pretreatment, possible external contamination, etc. For this reason, universally valid statements about the function of our products are not possible. Our products must not be used in aircraft/spacecraft or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application. We therefore recommend that you consult a FUCHS LUBRITECH GmbH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care. Our products undergo continuous improvement. We therefore retain the right to change our product range, the products and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid. Any form of reproduction requires express prior written permission from FUCHS LUBRITECH GmbH.