




**MOTOREX**  
Oil of Switzerland

PROFESSIONAL PRODUCTS

# GREASES



# GREASES AT A GLANCE - PROPERTIES AND APPLICATIONS

	DESCRIPTION	COLOR	APPLICATION
BIODEGRADABLE	ECOPASTE HT 400	beige 	<ul style="list-style-type: none"> <li>Extremely adhesive</li> <li>Prevents seizure of threads on drill rods</li> <li>Resistant to moisture</li> </ul>
	ECOGREASE B300	beige 	<ul style="list-style-type: none"> <li>For the lubrication of highly loaded plain and rolling bearings</li> <li>Especially for environmentally sensitive and water-near applications</li> <li>Very good pumpability in central lubrication systems</li> </ul>
	FETT 4000	beige 	<ul style="list-style-type: none"> <li>Usable at low temperatures</li> <li>Easily conveyable</li> <li>For water-near applications</li> </ul>
FOOD LINE	FOOD GREASE CS-HD 2	yellow-brown	<ul style="list-style-type: none"> <li>Unmatched high-pressure and corrosion protection properties</li> <li>Very good vibration resistance</li> <li>Exceptional mechanical and thermal stability</li> </ul>
	FOOD GREASE AL-MP 2	white	<ul style="list-style-type: none"> <li>Very good water resistance</li> <li>High load-carrying capacity</li> <li>Good resistance to shock loads</li> </ul>
	FOOD GREASE BE-HT 2	brown	<ul style="list-style-type: none"> <li>Wide operating temperature range</li> <li>Suitable for use in pellet presses</li> <li>Odorless and tasteless</li> </ul>
	FOOD GREASE SIL 3	colorless	<ul style="list-style-type: none"> <li>Specifically designed for use in drinking water, food, pharmaceutical, and packaging industries</li> <li>Excellent compatibility with elastomers and seals</li> <li>Very good adhesion and sealing properties</li> </ul>
UNIVERSAL	FETT 2000	fluorescent yellow	<ul style="list-style-type: none"> <li>High oxidation resistance</li> <li>Absolute water resistance, even in saltwater</li> <li>Exceptional adhesion properties</li> </ul>
	FETT 3000	red	<ul style="list-style-type: none"> <li>Excellent high-pressure properties</li> <li>Very resistant to aging</li> <li>Wide operating temperature range</li> </ul>
	FETT 190 EP	blue	<ul style="list-style-type: none"> <li>Pronounced EP properties</li> <li>Easily pumpable in central lubrication systems</li> <li>Good low-temperature behavior</li> </ul>
	FETT 195	beige	<ul style="list-style-type: none"> <li>Very good water resistance</li> <li>Very good corrosion protection properties</li> <li>Good adhesion</li> </ul>
	FETT 219	beige	<ul style="list-style-type: none"> <li>Superior pumpability for use in central lubrication systems</li> <li>Excellent emergency running properties</li> <li>Best lubrication performance for plastic-metal pairings</li> </ul>
	FETT 628	white	<ul style="list-style-type: none"> <li>High speed characteristic value</li> <li>Very good corrosion protection properties</li> <li>Excellent for steel/plastic friction pairs</li> </ul>
	FETT 170 M	gray-black	<ul style="list-style-type: none"> <li>Good emergency running properties thanks to molybdenum disulfide</li> <li>Good corrosion and oxidation protection</li> <li>Reliable operation even under shock loads</li> </ul>
	FETT 6000	light brown	<ul style="list-style-type: none"> <li>Specifically designed for use in road pavers</li> <li>Excellent water resistance</li> <li>Good oxidation stability at high temperatures</li> </ul>
PASTES	COPPER PASTE	gold	<ul style="list-style-type: none"> <li>Forms a separating layer between metal surfaces</li> <li>Operating range up to +1200 °C</li> <li>Prevents contact corrosion</li> </ul>
	CERAMIC PASTE	white	<ul style="list-style-type: none"> <li>Specifically for mounting ABS sensors and lambda sensors</li> <li>Non-conductive</li> <li>Prevents cold welding</li> </ul>
	SILICONE PASTE	white	<ul style="list-style-type: none"> <li>Ideal for mounting seals in hydraulic and pneumatic applications</li> <li>Wide operating temperature range</li> <li>Good compatibility with elastomers and plastics</li> </ul>
	MEISSELTRENNPASTE 183	copper	<ul style="list-style-type: none"> <li>For lubricating chisels or pointed tools in guide bushings of demolition hammers</li> <li>Excellent adhesion at high temperatures up to 1100°C</li> <li>High load-carrying capacity</li> </ul>
2-WHEEL	BIKE GREASE	fluorescent yellow	<ul style="list-style-type: none"> <li>Ideal for joints, hubs, or steering bearings</li> <li>Highly water-repellent</li> <li>Maximum adhesion and absolute water resistance</li> </ul>
	WHITE GREASE	white	<ul style="list-style-type: none"> <li>Perfectly suitable for wheel, pedal, and rolling bearings</li> <li>High adhesion</li> <li>Ideal corrosion and wear protection</li> </ul>
	SUSPENSION GREASE	beige	<ul style="list-style-type: none"> <li>Reduces stick-slip effect of fork suspensions and shock absorbers</li> <li>Highly water-repellent and oxidation-resistant</li> <li>Optimized for fork oil, seals, and O-rings</li> </ul>
	CARBON PASTE	colorless	<ul style="list-style-type: none"> <li>Increases friction between carbon components, reducing the required tightening force</li> <li>Facilitates the disassembly of fitted connections</li> </ul>

NLGI Class	Thickener (soap)	Designation according to DIN 51502	Base oil viscosity at 40°C mm <sup>2</sup> /s	Operating temperature range in °C	VKA welding force in N according to DIN 51 350	Speed characteristic value n = speed / min	Contains solid lubricants	Suitability in central lubrication systems	Registration
2	Bentonite	KPF2K-30	370	-30 /+500	5500		x		
2	Lithium	KPE 2 K-30	320	-30 /+120	3200			++	
2	Lithium	KPE2K-40	100	-40 /+120	2600			+	
2	Calcium-Sulphonate	KP2K-30	400	-30 / +190	4000			+	H1
2	Alu-Komplex	KP2N-40	330	-40 / +120	4000			+	H1
2	Bentonite	KP2K-30	400	-30 / +140			x		H1
3	Silica gel	K3N-50	700	-50 / +150					H1
2	Calcium	KP2G-30	800	-30 /+110	2400	150'		+	
2	Li-Komplex	KP2P-30	170	-30 /+150	2600	350'		+	
2	Lithium	KP2K-30	190	-30 /+120	2800	300'		++	
2	Li-Ca	KP2N-20	400	-25 / +140	3400	200'		+	
2	Li-Komplex	KPF2P-25	600	-25 /+150	6500	100'	x	++	
2	Lithium	KPF2K-30	100	-30 /+120	3400	350'	x	+	
2	Lithium	KPF2K-30	155	-30 /+120	3200	380'	x	+	
2	Polyurea	KP2R-20	460	-20 / +180	2800			+	
2	Bentonite		290	-30 /+1200	2600		x		
1-2	Ceramic			-50/+1050			x		
2	Polyurea	KSI2S-30	80	-30 /+280			x		
2	Alu-Komplex	MF2U-20	350	-20 /+1100		200'	x	+	
2	Calcium	KP2G-30	800	-30 /+110	2400	150'			
2	Lithium	KPF2K-30	100	-30 /+120	3400	350'	x	+	
2	Calcium	KP2G-30	110	-30 /+120	3200		x		
2	SiO2		100	-35 /+170			x		

Explanation of symbols: x included, + suitable, ++ very suitable

# THE RIGHT ACCESSORIES FOR YOUR APPLICATION

We offer an extensive range of accessories so that you can utilise our lubricating greases optimally. From high-quality grease guns to special dispensing devices - we have the right solution for efficient and clean application.



## GREASE GUN SINGLE-HANDED F 555

Hand lever grease gun complete with rigid shredder tube and mouthpiece

Art. 1198595



## ADAPTER LUBESHUTTLE - LINCOLN

With this adapter, LubeShuttle cartridges can be screwed into a Lincoln grease gun

Art. 1000596



## PULSARLUBE E, DISPOSABLE, 120 ml, 3000

Small and economical automatic single-point lubricator

MOTOREX grease selection:  
FOOD GREASE / ECOGREASE B300 /  
FETT 2000 (calcium) FETT 3000 (lithium)

Art. 1003613



## GREASE DEVICE MOBILE FOR CLS

For filling centralised lubrication systems with quick coupling. For gearbox grease with CLS quick coupling 1/4" Trolley for 17 kg grease reservoir Suitable for greases of class NLGI 00 / 000

Art. 1270636

## CAN'T FIND THE RIGHT GREASE?

This brochure only shows part of our product range - we actually have over 60 different special greases! You are guaranteed to find the optimum solution for your application - scan the QR code and discover our entire product overview. Or contact us directly - we will be happy to advise you personally.



TOTAL RANGE OF GREASES



## WHAT IS GREASE?

Lubricating greases are lubricants with a thickener (soap) that prevents them from flowing away.

### What are the basic ingredients of grease?

Approx. 80% lubricating oil  
Approx. 5–10% thickener (soap)  
Approx. 10–15% additives

### When do we use grease?

- + When liquid lubricants cannot be used for economic or technical reasons
- + To reliably seal against dirt and water (also ideal for imprecise seals)
- + For impact loads
- + For a reinforcing effect in addition to the grease seal

### What does grease do?

- + Reduces friction
- + Protects against wear and corrosion
- + Seals
- + Ensures heat dissipation

### Why does grease have to be used?

- + Extends the bearing service life
- + Increases operational reliability
- + Reduces noise
- + Enables higher bearing speeds

### Choose the right grease

- + Consistency (NLGI) 000 to 6
- + Thickener type (soap)
- + Base oil viscosity in centistokes (cSt) or mm<sup>2</sup>/s
- + Operating temperature range in °C
- + VKA welding force in N (newtons)

### Correctly lubricated: the following points must be taken into account when switching to a new grease

- + The previous product must be clarified
- + Compatibility of the base oil, thickener and additives
- + Completely remove the old grease

### Correctly lubricated: sometimes less is more

- + If too much grease is used, the operating temperature will rise sharply, especially at high speeds. The grease needs space.
- + The temperature will rise until the grease is sufficiently distributed.
- + Clean the lubricating nipples beforehand.
- + Regular lubrication with subsequent checks of the lubrication point is more effective than one-off lubrication with a lot of grease.
- + One-off lubrication with a lot of grease can cause damage due to overheating in bearings that rotate at high speeds.

### Correctly lubricated: cleaning

- + Lubricate before and after washing to prevent water ingress.  
Water is the scourge of every bearing.
- + After lubrication, any water that has accumulated on a bearing point should be removed to prevent subsequent damage.

## THE MOST IMPORTANT KEY DATA FOR ANY GREASE

### NLGI grade

The NLGI (National Lubricating Grease Institute) grade is a classification that describes the degree of consistency of greases, with higher numbers indicating a thicker consistency and lower numbers indicating a thinner consistency. For example, NLGI Class 2 represents grease with a medium consistency.

There are nine NLGI grades in total and they range from 000 (fluid grease) to 6 (waxy consistency).

### Thickener (soap)

The thickener in a grease is a substance used to transform the liquid base oil into a semi-solid or solid consistency. It binds the base oil and forms a sponge-like framework that ensures the structure and stability of the lubricating grease.

Lithium thickeners offer good mechanical stability, shear strength and temperature resistance. Calcium thickeners offer very good resistance to water and are suitable as an all-purpose grease. Lithium complex thickener is a special type of thickener that is characterised by its high levels of mechanical and oxidation stability. In addition, other thickener types such as sodium, ben-

tonite, aluminium complex, polyurea and special combinations of these are also used in certain applications.

### Base oil viscosity

Base oil viscosity refers to the fluidity or viscosity of the base oil. The base oil is absorbed and retained in the sponge-like structure of the thickener.

At low temperatures, a low base oil viscosity is advantageous, as the oil remains thinner and ensures good lubrication even in cold conditions. At high temperatures, on the other hand, a higher base oil viscosity is required to ensure a sufficient lubricating film and good load carrying capacity.

The viscosity is specified in centistokes (cSt) or mm<sup>2</sup>/s.














### Operating temperature range in °C:

Indicates the temperature range in which the grease can function effectively and stably without significantly impairing its lubricating properties. If the temperature is too low, the grease can no longer flow and is therefore no longer able to separate the surfaces to be lubricated. If

it is too high, the grease will degrade or lose its structural integrity, which can lead to loss of lubrication capability and lubrication failure.

### VKA welding force

VKA refers to a “four-ball tester” and is a method for determining the welding resistance of lubricants. In this test procedure, four steel balls and the lubricant are pressed together in a specific arrangement and rotated at a defined speed. A higher VKA welding force means that the grease has better welding resistance and can therefore be used in applications with high loads and conditions involving extreme friction.

	<b>ALPINE LINE</b>	Infrastructure and operations Infrastructure et exploitation Infrastruktur und Betrieb
	<b>BIKE LINE</b>	Bike cleaning and care Nettoyage et entretien des vélos Fahrrad Reinigung und Pflege
	<b>CAR LINE</b>	Automotive drive technology Technologie automobile Automotive Antriebstechnik
	<b>CHEMICAL SOLUTIONS</b>	Protection and hygiene products Produits de protection et d'hygiène Schutz und Hygiene-Produkte
	<b>CLASSIC LINE</b>	Classic and youngtimer mobility Mobilité oldtimer et youngtimer Old- und Youngtimer Mobilität
	<b>CONSTRUCTION LINE</b>	Construction machinery and equipment Machines et équipements de construction Baumaschinen und Bauanlagen
	<b>FARMER LINE</b>	Agriculture and forestry Agriculture et sylviculture Land und Forstwirtschaft
	<b>FOOD LINE</b>	Food industry Industrie alimentaire Lebensmittelindustrie
	<b>INDUSTRIAL LINE</b>	Metal processing industry Industrie d'usinage des métaux Metallbearbeitende Industrie
	<b>MARINE LINE</b>	Marine drive technology Technologie des moteurs marins Marine Antriebstechnik
	<b>FLUID MANAGEMENT</b>	Fluid management solutions Solutions de gestion des fluides Fluid Management Solutions
	<b>MOTO LINE</b>	Motorbike lubrication and care products Produits de lubrification et d'entretien pour motos Motorrad Schmier- und Pflegeprodukte
	<b>TRUCK LINE</b>	Transport and maintenance Transports et maintenance Transportwesen und Instandhaltung

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