

# CENTOPLEX 2 and 3

Multi-purpose greases for rolling and plain bearings



## Description

CENTOPLEX 2 and 3 are multi-purpose greases based on oxidation-resistant mineral oils and lithium soap. They meet the rolling bearing grease requirements according to DIN 51825 K.

Due to the good resistance to working under normal temperatures and loads these greases can be used for long-term lubrication. The more viscous CENTOPLEX of NLGI grade 3 is to be used for bearings with inclined or vertical shafts or insufficiently sealed bearings.

## Application

CENTOPLEX 2 and CENTOPLEX 3 are used for rolling and plain bearings. When used for long-term lubrication, temperatures at the friction point should be  $< 70^{\circ}\text{C}$ . The greases can be used up to their maximum service temperature of  $130^{\circ}\text{C}$  provided fresh oil is constantly fed to the friction point.

We would be pleased to provide more detailed information on relubrication intervals and quantities. CENTOPLEX 2 and 3 are also suitable for the lubrication of toothed and worm gears, guides and threaded spindles. CENTOPLEX 2 and 3 can be used for all applications where standard greases based on mineral oil and lithium soap according to DIN 51825 are used.

## Application notes

CENTOPLEX 2 and 3 can be applied by grease gun, brush or spatula. If a fully-automatic lubrication system is available for relubrication, CENTOPLEX 2 should be used. For initial lubrication CENTOPLEX 2 or CENTOPLEX 3 can be used depending on the bearing seal.

## CENTOPLEX 2 und 3

- Long-term lubrication of simple applications
- Multi-purpose greases

## Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

## Pack sizes

### CENTOPLEX 2:

1 kg	can
25 kg	bucket
180 kg	drum
400 g	cartridge

### CENTOPLEX 3:

1 kg	can
25 kg	bucket
180 kg	drum

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## Product data

	CENTOPLEX 2	CENTOPLEX 3
Base oil	mineral oil	mineral oil
Thickener	lithium soap	lithium soap
Service temperature range*, [°C] lower limit value, approx. upper limit value	-20 130	-15 130
Color	light brown	beige-light brown
Aspect	almost transparent	almost transparent
Texture	homogeneous, fibrous	homogeneous, fibrous
Cone penetration, DIN ISO 2137, worked penetration, 25 °C lower limit value, [0.1 mm] upper limit value, [0.1 mm]	265 295	220 250
Kinematic viscosity of the base oil, DIN 51562, pt. 1, Ubbelohde at 40 °C, [mm <sup>2</sup> /s], approx. at 100 °C, [mm <sup>2</sup> /s], approx.	100 10	100 10
Corrosion protection, DIN 51802, (SKF-EMCOR), 1 week, distilled water, corrosion degree	≤ 1	≤ 1
Oil separation, DIN 51817, 7d/40 °C, [% by wt.]	< 4	2
Drop point, DIN ISO 2176, [°C]	> 190	> 190
Speed factor** (n x dm), [mm x min <sup>-1</sup> ], approx.	500,000	400,000

\* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

\*\* Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

The data in this product information is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



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