

# CENTOPLEX DL

Low-temperature greases for rolling and plain bearings



## Benefits for your application

- Low-temperature greases
- Dynamically light
- Long-term lubrication of simple applications
- Multi-purpose greases
- Excellent corrosion protection

## Description

CENTOPLEX 1 DL/2 DL are low-temperature greases based on an oxidation-resistant mineral oil and a lithium-calcium soap. Due to the good resistance to working under normal temperatures and loads these greases can be used for long-term lubrication.

## Application

CENTOPLEX 1 DL/2 DL can be used as low-temperature greases in rolling and plain bearings as well as lubrication points subject to low torques and/or high speeds. These greases have also proven effective for the lubrication of locks in vehicles, windshield wipers and small gears. CENTOPLEX 2 DL is also suitable for the lubrication of freewheels. When used for long-term lubrication, temperatures at the friction point should be < 70 °C. We would be pleased to provide more detailed information on relubrication intervals and quantities.

## Application notes

CENTOPLEX 1 DL/2DL can be applied by grease gun, brush or spatula. Pumpability in central lubrication systems is to be checked with the manufacturer. Conventional agents can be used for cleaning the bearings.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	CENTOPLEX 1 DL	CENTOPLEX 2 DL
Cartridge 400 g	+	+
Can 1 kg	+	+
Bucket 25 kg	+	+
Drum 180 kg	+	+

Product data	CENTOPLEX 1 DL	CENTOPLEX 2 DL
Article number	020123	020007
Chemical composition, type of oil	mineral oil	mineral oil
Chemical composition, thickener	lithium-calcium soap	lithium-calcium soap
Lower service temperature	-45 °C / -49 °F	-40 °C / -40 °F
Upper service temperature	80 °C / 176 °F	80 °C / 176 °F
Colour space	beige	beige
Density at 20 °C	approx. 0.87 g/cm <sup>3</sup>	approx. 0.90 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm	265 x 0.1 mm



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Low-temperature greases for rolling and plain bearings

Product data	CENTOPLEX 1 DL	CENTOPLEX 2 DL
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm	295 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 14 mm <sup>2</sup> /s	approx. 14 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 3 mm <sup>2</sup> /s	approx. 3 mm <sup>2</sup> /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	0 corrosion degree	0 corrosion degree
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months	36 months

## Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 80 years.

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The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

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