

Klüberplex SK 12

Special lubricating grease for plain bearings



Benefits for your application

- Less maintenance due to long-term lubrication
- Reliable function and sealing against dust and dirt
- Versatile application even under high loads and low speeds
- Long component life due to high wear and corrosion protection
- Tried and tested for many bronze plain bearings, good compatibility with nonferrous metals
- Also suitable for relubrication; miscible with many commercial bearing greases

Description

Klüberplex SK 12 is a semi-synthetic long-term grease for a wide service temperature range. It offers a high pressure absorption capacity at low speeds. The special barium complex soap thickener ensures good adhesion on the component and resistance to aggressive media. The additives contained in Klüberplex SK 12 enhance wear protection.

Application

Klüberplex SK 12 has been especially designed for lubrication of bronze plain bearings, e.g. Wieland-B09 (CuSn8). The performance of Klüberplex SK 12 is of particular importance for sliding elements and plain bearing bushes subject to low sliding speeds or oscillations in the mixed friction regime.

Typical applications are joints and self-aligning bearings in building machines or agricultural and forestry vehicles. An extension of relubrication intervals is possible as Klüberplex SK 12 forms a lubricant depot in the plain bearing through

lubricating pockets, grooves or holes. The grease can also be used for rolling bearings subject to high loads and speeds up to approx. 100,000 mm/min.

Application notes

Klüberplex SK 12 is applied by means of spatula, brush or grease gun. For application via automatic lubricating systems, pumpability should be checked beforehand. Prior to series application we recommend testing the miscibility with other lubricants or anticorrosion agents.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberplex SK 12
Can 1 kg	+
Drum 180 kg	+

Product data	Klüberplex SK 12
Article number	004260
Chemical composition, thickener	barium complex soap
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, type of oil	mineral oil
Lower service temperature	-40 °C / -40 °F
Upper service temperature	140 °C / 284 °F
Colour space	beige
Density at 20 °C	approx. 0.93 g/cm ³



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Product data	Klüberplex SK 12
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	310 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	340 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 500 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 43 mm ² /s
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	8 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	4 000 mPas
Drop point, DIN ISO 2176, IP 396	>= 220 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	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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