Klüberlub BE 71-501

Special lubricating grease for rolling and plain bearings

Benefits for your application

- **Versatile lubricant for highly loaded rolling and plain bearings**
- **Reduced operating and maintenance costs due to low consumption**
- **Good wear protection when exposed to high loads**
- **Long grease life due to low operating temperatures and friction**
- **Low waste water disposal costs and long service life of components due to good water resistance**

Description

Klüberlub BE 71-501 is a light-coloured lubricating grease which offers good compatibility with nonferrous metals like those used for example as plain bearing material. Due to its special formulation and solid lubricants, wear is low when exposed to rotating and oscillating motion and high impact loads. Klüberlub BE 71-501 is resistant to water and has a good sealing effect. The additives contained in this product enhance its ageing resistance.

Application

Klüberlub BE 71-501 can contribute to extending the service life of plain bearings where low-wear and low-friction operation is required under mixed friction conditions. This special grease meets the requirements in terms of reduced lubricant consumption and extended lubrication intervals in forging presses while maintaining a constant temperature level in the plain bearing. Klüberlub BE 71-501 can also be used for plain bearings subject to high loads in the plastics processing industry and building machines (e.g. ring-roll mills) and in construction machines. Owing to the good results achieved on the rolling bearing test rigs and the good pumpability of the grease in commercial central lubrication systems. Klüberlub BE 71-501 is also suitable for high-temperature applications, especially in the steel industry (e.g. ring-roller mills) and wood-working industry (e.g. rolling bearings in pelleting presses).

Application notes

Klüberlub BE 71-501 can be applied by means of central lubrication systems or by brush, spatula, grease gun and automatic metering devices. When switching to Klüberlub BE 71-501, the lubricant consumption should be reduced step by step in order to ensure that used lubricant, wear particles and impurities are completely removed from the bearing.

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

Product data	Klüberlub BE 71-501
Article number	020160
Chemical composition	solid lubricant
Chemical composition, thickener	polyurea
Chemical composition, type of oil	mineral oil
Colour space	yellow
Lower service temperature	-20 °C / -4 °F
Service temperature, upper limiting value for continuous lubrication	160 °C
Service temperature, rolling bearings, acc. to DIN 51825	140 °C

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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. 490 mm²/s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 32 mm²/s
Lubricating greases -K, DIN 51825 in connection with DIN 51502	KPF1N-20*; *Emcor max. 2
Speed factor (n x dm)	approx. 300 000 mm/min
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 2 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 200 °C
Flow pressure of lubricating greases, DIN 51805, test temperature: -20 °C	<= 1 400 mbar
Four-ball tester, welding load, DIN 51350 pt. 04	>= 4 000 N
Four-ball EP tester,wear value,DIN 51350 part 5, procedure E,60s/1000N, wear scar diameter	<= 1 mm
Load-carrying capacity acc. to Brugger B, based on DIN 51347-1 and -2	>= 30 N/mm²
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

Product information

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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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