

Klübersynth BR 46-32

Special grease for rolling bearings, ball screws and small gears



Your benefits at a glance

- **Reduced wear in the rolling and sliding contact zones**
- **Enables for-life lubrication at medium speeds**
- **Optimum base oil combination for low starting torques at low temperatures**
- **Compatible with EPDM materials and brake fluids**

Your requirements - our solution

Rolling bearings, ball screws and small gears, especially those in cars, require low starting torques in combination with for-life lubrication. The use of special materials is making the compatibility of lubricants an ever more pressing issue.

Klübersynth BR 46-32 is a grease offering a solution precisely to these challenges. Its chemical composition enables the product to meet the requirements in terms of service life, low starting torque as well as compatibility with specified materials.

Klübersynth BR 46-32 is based on a polyglycol / ester mixture, with a thermally stable lithium complex soap that is resistant to ambient media. The product offers you very good smooth running properties at low temperatures owing to its low base oil viscosity. The oils contained show excellent oxidation resistance, supporting operational reliability at high temperatures. The additives contained contribute to the product's very good antiwear effect.

Klübersynth BR 46-32 can also be used in applications where noise generation is an issue.

Klübersynth BR 46-32 was designed to offer compatibility with EPDM elastomers and other materials. Please note, however, that elastomer qualities of one or several manufacturers may vary. General compatibility with these materials cannot be guaranteed and has to be checked in each case.

Application

Klübersynth BR 46-32 was developed for the long-term lubrication of sliding and rolling contacts, e.g. in rolling bearings, ball screws or small gears in cars.

Application notes

Klübersynth BR 46-32 may be applied by brush, spatula, grease gun or grease cartridge. We recommend testing the pumpability of Klübersynth BR 46-32 in automatic lubrication systems prior to use. A typical characteristic of some polyurea greases is solidification after prolonged storage. This increase in consistency does not normally affect the grease's performance and can be reversed by shearing or churning.

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	Klübersynth BR 46-32
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Product data	Klübersynth BR 46-32
Article number	012322
Chemical composition, thickener	special lithium soap
Chemical composition, type of oil	PAG
Chemical composition, type of oil	ester oil
Lower service temperature	-45 °C / -49 °F



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Product data	Klübersynth BR 46-32
Upper service temperature	130 °C / 266 °F
Colour space	brown
Density at 20 °C	approx. 1.00 g/cm ³
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 29 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 6 mm ² /s
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 250 °C
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 2 - 90
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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