

Klüberlectric BQ 72-72

Electroconductive low-noise rolling bearing grease for long-term lubrication



Your benefits at a glance

- Innovative lubricant containing ionic liquids to provide electroconductivity
- Excellent behaviour at high and low temperatures
- Especially for lifetime lubrication of capped or sealed deep groove ball bearings
- Very good low-noise characteristics

Your requirements - our solution

Do your rolling bearings have to meet challenging performance requirements in the face of long relubrication intervals or even lifetime lubrication? Do they have to operate over a wide service temperature range? Is there a risk of unwanted electric discharge which might lead to electric erosion and the formation of micro-craters? Do you operate rolling bearings in electric components such as generators or electric motors with continuously adjustable speed enabled by frequency converters and expect them to work reliably throughout the component's lifetime with only a minimum of noise?

The right lubricant can make a substantial contribution to meeting these taxing requirements. Klüberlectric BQ 72-72 was developed as an electroconductive rolling bearing grease with added excellent low-noise characteristics. Due to the use of selected additives based on ionic liquids, the lubricant's electroconductivity was increased, attaining resistance characteristics resembling those of semiconductors. Another challenge exists in the form of high or low temperatures in combination with long-term or lifetime lubrication. When developing this product, we attached particular importance to the combination of electroconductivity, long-term performance and low-noise operation so as to provide you with a maximised range of applications.

Application

Klüberlectric BQ 72-72 is primarily used for the long-term lubrication of capped or sealed ball bearings. Many of them are components of speed-controlled electric motors, generators or fans, or they operate in automobile applications where long service life has to be attained at above-average permanent temperatures and noise must be kept under control.

Application notes

Klüberlectric BQ 72-72 may be applied by brush, spatula, grease gun or grease cartridge. We recommend testing the pumpability of Klüberlectric BQ 72-72 in automatic lubrication systems prior to use.

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	Klüberlectric BQ 72-72
Can 1 kg	+
Cartridge 400 g	+
Bucket 25 kg	+

Product data	Klüberlectric BQ 72-72
Article number	094140
Chemical composition, thickener	polyurea
Chemical composition, type of oil	ester oil
Lower service temperature	-45 °C / -49 °F
Upper service temperature	180 °C / 356 °F
Colour space	beige



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Product data	Klüberlectric BQ 72-72
Texture	homogeneous
Texture	short-fibred
Density at 20 °C	approx. 0.96 g/cm ³
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
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 72 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 9.5 mm ² /s
Speed factor (n x dm)	1 000 000 mm/min
Flow pressure of lubricating greases, DIN 51805, test temperature:-45 °C	<= 1 400 mbar
Noise test run, SKF BeQuiet+, noise classes	>= GN3
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Testing of lubricating greases on FAG FE9 rolling bearing tester, DIN 51821 pt. 02, speed: 6000 min-1, axial load: 1500 N, temperature: 180 °C, service life F50:	>= 100 h
Specific resistance based on DIN EN 62631-3-1; electrode spacing:1 cm; grease quantity: 1 cm ³	<= 1*10 ⁷ Ohm cm
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	0 - 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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