

Klüberquiet® BQ 72-72

Low-noise rolling bearing grease for long-term lubrication

Benefits for your application

- Long-term operation due to optimized wear protection and smooth running
- Wide service temperature range allows a variety of applications
- Low costs due to long service life of grease at > 80 °C
- Particularly suitable for lifetime-lubricated deep groove ball bearings

Application

Klüberquiet® BQ 72-72 is highly suitable for bearings where long service life is required in combination with especially low-noise operation. Such applications include rolling bearings in electric motors, fans, air conditioners, generators and belt tighteners in cars, electric household appliances and office equipment.

The low-noise characteristics of this rolling bearing grease have been confirmed in various tests performed on special noise test rigs. Tests according to the SKF-BeQuiet+ method showed that Klüberquiet® BQ 72-72 can be classified as noise class GN 3.

Grease service life tests were conducted on SKF-ROF and FAG-FE9 rolling bearing testers according to DIN 51 821. The results showed long service lives at high temperatures (see product data).

Description

Klüberquiet® BQ 72-72 is made up of an ester oil, a polyurea thickener and special additives. These components have been combined such that Klüberquiet® BQ 72-72 offers outstanding advantages for the lubrication of rolling bearings:

- extremely low-noise operation shown on special test rigs, e.g. SKF BeQuiet+
- Long bearing life due to optimized wear protection and a thermally stable, synthetic grease
- good compatibility with elastomers (data available on request)
- Wide service temperature range and good low-temperature performance

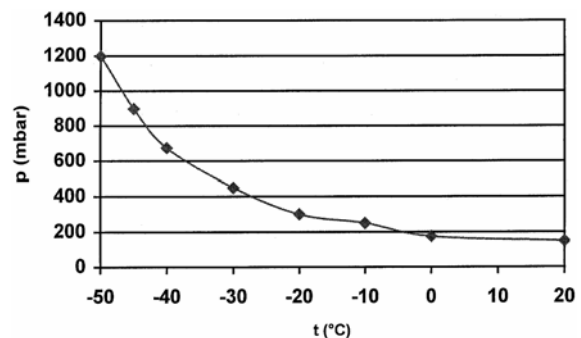


Fig.: Flow pressure dependent on temperature.

The graph demonstrates the excellent flow characteristics at low temperatures.

Application notes

The lubricant is applied by means of a spatula, brush, grease gun or grease cartridge. We recommend completely removing preservatives before applying the grease. Preservatives for permanent use should be checked for purity and compatibility with Klüberquiet® BQ 72-72. We can recommend suitable preservatives on request.

Minimum shelf life

The minimum shelf life is approx. 24 months if the product is stored in its unopened original container in a dry, frost-free place.



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Pack sizes

400 g cartridge
1 kg can
25 kg bucket

Material Safety Data Sheets

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

Product data	Klüberquiet® BQ 72-72
Base oil / thickener	ester oil / polyurea
Color	beige
Service temperature range*, DIN 51 825, [°C], approx.	- 45 to 180
Worked penetration, DIN ISO 2137, (ASTM-D 217), at 25 °C, [0.1 mm]	250 – 280
Drop point, DIN ISO 2176, [°C]	> 220
Water resistance acc. to DIN 51 807, part 1, 3 h / 90 °, [rating]	0 – 90
Corrosion protection of lubricating greases, DIN 51 802, (SKF-Emcor test), duration of test: 1 week, distilled water, [degree of corrosion]	0/1
Kinematic viscosity of the base oil, DIN 51 562, part 01, Ubbelohde at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	70 9
Speed factor for deep groove ball bearings**, (n x d _m) [mm x min ⁻¹], approx.	1,000,000
Flow pressure acc. to DIN 51 805, test temperature -45°C, [mbar]	< 1,400
FAG-FE9-test rig for rolling bearing greases, DIN 51 821/pt. 2, 6,000 min ⁻¹ , 1,500 N, 180 °C, assembly A, F ₅₀ , in [h]	> 100
SKF-ROF- test rig for rolling bearing greases 10,000 min ⁻¹ , F _a = 100 N, F _r = 50 N, 170 °C, F ₅₀ , in [h]	> 1,000
Noise test acc. to SKF-Bequiet-Plus [noise class]	GN 3

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case.

Lubrication is our world

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www.klueber.com

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