

Klüberquiet BQH 72-102

High-purity rolling bearing grease for long-term lubrication



Description

Klüberquiet BQH 72-102 is a synthetic high-temperature lubricating grease. Due to the careful selection of product components and the clean manufacturing environment, Klüberquiet BQH 72-102 is a rolling bearing grease with a particularly low noise level. Klüberquiet BQH 72-102 offers excellent performance characteristics thanks to a high-quality ester oil, a new polyurea thickener and special additives. It is special in that it combines high-temperature resistance and extreme purity.

Application

In a wide variety of ball bearings operating under extreme thermal stress, Klüberquiet BQH 72-102 is used for long-term or lifetime lubrication. Such applications include:

- Ball bearings in electric motors, fans, air conditioners, generators and belt tensioners in cars, power tools as well as household appliances and office equipment.

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 chemical compatibility with Klüberquiet BQH 72-102. We can recommend suitable preservatives on request.

Minimum shelf life

The minimum shelf life is approx. 12 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

400 g	cartridge
1 kg	can
25 kg	bucket

Current material safety data sheets can be downloaded from our website www.klueber.com or requested from Klüber Lubrication.

Klüberquiet BQH 72-102

- Long service life
- High purity
- Low noise
- High-temperature lubricating grease for rolling bearings
- Good water resistance

Product data

Base oil / thickener	ester oil / polyurea
Colour	beige
Service temperature range *, DIN 51825, 51821/T2, °C, approx.	-40 to 180
Worked penetration, DIN ISO 2137, (ASTM-D 217), at 25 °C, 0.1 mm	250 to 280
Drop point, DIN ISO 2176, °C	> 250
Water resistance acc. to DIN 51807, pt. 1, °C	0 - 90
Corrosion protection of lubricating greases, DIN 51802, SKF Emcor test, test duration 1 week, distilled water, degree of corrosion	max. 1
Kinematic viscosity of base oil, DIN 51562, pt. 01, Ubbelohde at 40 °C, mm ² /s, approx. at 100 °C, mm ² /s, approx.	100 11
Speed factor ** deep groove ball bearing (n x dm) mm x min ⁻¹ , approx.	700,000
Low-temperature torque acc. to IP 186/85 at -40 °C Starting torque, mNm Running torque, mNm	< 1,000 < 100
FAG-FE9 test rig for rolling bearing grease, DIN 51821, pt.2 A, 6,000 min ⁻¹ , 1,500 N, 180 °C, F ₅₀ in h	> 100
SKF-ROF test rig for rolling bearing grease 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 mechanodynamical 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.

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FAG-FE8 test rig for rolling bearing greases

Angular contact bearing 31312 A $F_a = 10 \text{ kN}$ $n = 1,500 \text{ min}^{-1}$ Test duration: 500 h	Steady-state temperature ¹ , °C between 400 and 500 h	61
	Frictional torque ¹ of both test bearings, Nm	1.9
	Rolling element wear ¹ , mg	5

¹ = mean values

Compatibility with elastomers and plastics

The following elastomers were statically tested for resistance to Klüberquiet BQH 72-102:

Medium	Material	Time / temperature [h / °C]	Volume change [%]	Change in hardness, Shore A	Change in tensile strength [%]	Change in elongation at tear [%]
Klüberquiet BQH 72-102	72 NBR 902 *	168 / 120	17.1	-13	-28	-7.8
	75 FPM 585*	168 / 120	1.1	-1.0	-12.7	-39.4
	HNBR C552 **	168 / 120	17.5	-12.0	-17.9	-6.8
	75 ACM 370 *	168 / 120	9.4	-9.0	-30.9	+25.7

* = manufactured by Freudenberg, Weinheim

** = manufactured by RFT

We recommend checking the compatibility of the lubricating grease and the contacting material, especially prior to series application (our test results were obtained with samples and are not a suitable substitute for your own testing).

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication, a member of the Freudenberg group

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