

ASONIC® HQ 72-102

High-temperature lubricating grease for low-noise rolling bearings



Description:

ASONIC HQ 72-102 is a synthetic high-temperature lubricating grease. Due to the careful selection of product components and the clean manufacturing environment, ASONIC HQ 72-102 is a rolling bearing grease with a particularly low noise level.

Pack sizes:

400-g cartridge
1-kg can
25-kg bucket

ASONIC HQ 72-102

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

Application:

In a wide variety of ball bearings operating under extreme thermal stress, ASONIC HQ 72-102 is used for economical long-term or lifetime lubrication. Examples are ball bearings in electric motors, fans, power-tool pumps, textile machinery, office equipment, household appliances and automobile components such as belt tensioners, guide pulleys and air conditioners.

Application notes:

The lubricant is applied by means of a spatula, brush, grease gun or grease cartridge. For use in automatic lubricating systems, the pumpability of the lubricant should be checked.

Certain polyurea greases solidify during elongated periods of storage. Normally, such increase in consistency does not affect the performance of the lubricating grease and is reversible when the grease is subjected to shearing or working stress.

Behaviour towards elastomers and plastics

The following elastomers were statically tested for resistance to ASONIC HQ 72-102.

Medium	Material	Time/temp. h / °C	Change in volume (%)	Shore hard- ness A	Tensile strength (%)	Elonga- tion at break (%)
ASONIC HQ 72-102	70 ACM 174997	168 / 150	21.4	- 21	- 26	80
ASONIC HQ 72-102	75 FKM 585	168 / 150	4	0	16	- 49
ASONIC HQ 72-102	70 FKM 175825	168 / 150	7.2	- 5	- 10	- 7
ASONIC HQ 72-102	72 NBR 902	168 / 100	17	- 8	- 17	- 22

Prior to series application we recommend testing the compatibility of the grease and the pertinent materials.

(Our test results were obtained with random samples and cannot substitute your own in-house tests.)

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Product data:

Base oil / thickener	Ester oil / polyurea
Service temperature range*, °C	– 40 to 180
Colour	beige
Drop point, DIN ISO 2176, °C	> 240
Worked penetration, DIN ISO 2137, at 25 °C; 0.1 mm	250 to 280
Apparent dynamic viscosity, Klüber viscosity grade**	L / M
Water resistance, DIN 51 807, pt. 1, 3 h / 90 °, rating level	1 – 90
Corrosion protection of lubricating greases, DIN 51 802, (SKF-Emcor), test duration: 1 week, distilled water, degree of corrosion	max. 1
Kinematic viscosity of base oil, DIN 51 562, pt. 01, Ubbelohde at 40 °C, mm ² /s, approx.	100
at 100 °C, mm ² /s, approx.	12
Speed factor*** for deep groove ball bearings, (n x d _m) mm/min. approx.	700,000
Low-temperature torque in acc. with IP 186/93 at – 40 °C	
Starting torque, Nmm	< 1,000
Running torque, Nmm	< 150
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

* 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.

** Klüber viscosity grades: EL = extra-light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra-heavy lubricating grease

*** 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.

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.



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