Klübersynth HB 72-52

High-temperature grease for rolling bearings

Description

Klübersynth HB 72-52 is a synthetic high-temperature grease. It is based on special ester oil, a polyurea thickener and selected additives and covers a wide service temperature range. The grease is compatible with EPDM, offers excellent running times, good corrosion protection as well as water washout resistance.

Application

Klübersynth HB 72-52 has been especially designed for the lifetime lubrication of rolling bearings with EPDM seals such as brake and clutch release bearings, automotive rolling bearing components or electric motors and high-speed bearings.

Application notes

The lubricant is applied by means of spatula, brush, grease gun or grease cartridge.
Please run your own test if you wish to use your automatic lubrication system or contact us for more information.

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.

Package sizes

1 kg can
25 kg bucket
180 kg drum

Klübersynth HB 72-52

- Long service life
- Wide service temperature range
- Good corrosion protection and water resistance
- Compatible with EPDM

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.

Compatibility with elastomers

The following elastomer was tested statically during 168 h acc. to DIN 53538 for compatibility with Klübersynth HB 72-52:

Material	Time / Temperature [h / °C]	Change in volume [%]	Change in hardness Shore A
70 EPDM 281	168 / 120	-3,3	+3
75 FKM 585	168 / 120	+3,1	0

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

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Product data

Base oil / thickener	ester oil / polyurea
Colour	whitish-pink
Service temperature, [* °C], approx.	-30 to +180
Drop point, DIN ISO 2176, [°C]	≥ 250
Worked penetration, DIN ISO 2137, at 25°C; [0.1 mm]	280 - 310
Low-temperature torque, IP 186/93, -35 °C starting torque, [Nmm] running torque, [Nmm]	 ≤ 1,000 ≤ 100
Density at 20 °C, g/cm³, approx.	1.05
Water resistance DIN 51 807, pt.1, 3 h/90°C rating	0 - 90
Anticorrosion properties of lubricating greases, DIN 51 802; SKF Emcor test (1 week, distilled water), corrosion degree	≤ 1
Kinematic viscosity of the base oil, DIN 51562, pt. 1, Ubbelohde, at 40 °C, [mm²/s], approx. at 100 °C, [mm²/s], approx.	 55 9
Speed factor** for deep-groove ball bearings, n x d_m, [mm x min^{-1}], approx.	1 million
FAG FE9 rolling bearing grease test rig, DIN 51821/pt. 2, A, 6,000 rpm, 1.500 N, 180 °C, F_{50} in [h]	≥ 100
SKF ROF rolling bearing grease test rig, 10,000 rpm, 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.

** 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.

Klüber Lubrication, a member of the Freudenberg group

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