

Klüberspeed BF 42-12

High-speed lubricating grease



Benefits for your application

- **Faster running-in of spindle bearings**
- **Very good resistance to water protects bearings against premature failure, thus helping to minimize maintenance costs**
- **Low heating-up of bearings due to low lubricant friction leading to longer service lives**
- **Special synthetic base oils produce very good low-temperature characteristics giving a wide service temperature range**

Description

Klüberspeed BF 42-12 is an adhesive special grease with good mechanical stability. It has a fully synthetic base oil and a special lithium soap thickener. The base oil viscosity and its viscosity-temperature characteristics allow Klüberspeed BF 42-12 to be used for a wide range of speeds and temperatures. Bench tests have shown that Klüberspeed BF 42-12 has better running-in characteristics than standard high-speed greases.

Application

Klüberspeed BF 42-12 is preferably used for milling, grinding, turning and drilling spindles running at high speeds. Thanks to the thermal stability and the good ageing resistance of the base oil, the grease permits also application in motor-powered spindle bearings.

Application notes

Klüberspeed BF 42-12 can be filled into the bearings using normal grease application tools (spatula, grease gun). Application by means of central lubricating systems and metering devices is also possible.

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	Klüberspeed BF 42-12
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberspeed BF 42-12
Article number	004048
Lower service temperature	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F
Speed factor (n x dm)	approx. 1 600 000 mm/min
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 24 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5 mm ² /s
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	5 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	2 000 mPas



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Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 220 °C
Colour space	beige
Chemical composition, thickener	special lithium soap
Chemical composition, type of oil	ester oil
Chemical composition, type of oil	synthetic hydrocarbon oil
Density at 20 °C	approx. 0.90 g/cm ³
Flow pressure of lubricating greases, DIN 51805, test temperature: -50 °C	<= 1 400 mbar
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 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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