

# Klüberspeed BF 72-22

High-speed lubricating grease



## Benefits for your application

- **Very good resistance to water and anticorrosive effect protect bearings against premature failure, thus helping to minimize maintenance costs.**
- **Low starting torque enables problem-free operation and energy savings also at low temperatures**
- **Long-term successful use in particular at high speeds**
- **Shorter running-in of spindle bearings**

## Description

Klüberspeed BF 72-22 is a high-performance special grease with a synthetic base oil and a polyurea thickener. The base oil viscosity and its viscosity-temperature characteristics allow Klüberspeed BF 72-22 to be used for a wide range of speeds and temperatures. Tests have shown that Klüberspeed BF 72-22 is suitable for extremely high speeds; speed factors of up to 2 million were attained. Klüberspeed BF 72-22 also allows shorter running-in times and has a long service life.

## Application

Klüberspeed BF 72-22 is preferred for use in horizontally mounted spindles in milling, grinding and drilling machines and lathes running at very high speeds and high permanent temperatures. Such high speeds are frequently encountered in motor-powered spindle bearings. Klüberspeed BF 72-22 is also suitable for other high-speed bearings as are found in power

tools, electric motors, etc.. Other uses include the greasing of tooth flanks in precision gears (e.g. bevel gears in milling machines, electro-mechanical valve actuators).

## Application notes

Klüberspeed BF 72-22 can be filled into the bearings using normal grease application tools (e.g. spatula, grease gun). Application by means of industrial central lubricating systems and metering devices is also possible. The possibility of a change in colour is inherent in this product concept. It has, however, no influence on product performance.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	Klüberspeed BF 72-22
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	Klüberspeed BF 72-22
Article number	004043
Chemical composition, thickener	polyurea
Chemical composition, type of oil	ester oil
Chemical composition, type of oil	synthetic hydrocarbon oil
Lower service temperature	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F
Colour space	beige
Density at 20 °C	approx. 0.92 g/cm <sup>3</sup>



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Product data	Klüberspeed BF 72-22
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	250 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	280 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 22 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5 mm <sup>2</sup> /s
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	5 000 mPas
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	2 000 mPas
Drop point, DIN ISO 2176, IP 396	>= 220 °C
Speed factor (n x dm)	approx. 2 000 000 mm/min
Flow pressure of lubricating greases, DIN 51805-2, test temperature: -50 °C	<= 1 400 mbar
Oil separation, DIN 51817 N, after 7 d/40 °C	<= 3 % by weight
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
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.	24 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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