

ISOFLEX NBU 15

Spindle bearing grease



Benefits for your application

- Tried and tested over many years especially in high-speed applications
- Longer component life due to optimized wear protection and good pressure absorption capacity
- Excellent resistance to water and media as well as above-average anticorrosive additives protect bearings against premature failure, thus helping to minimize repair costs
- Low intrinsic bearing heat due to low lubricant friction enabling longer service life
- Uninterrupted machine operation due to good pumpability and metering in customary centralized lubricating systems

Description

ISOFLEX NBU 15 is a high-speed grease with a good pressure absorption capacity.

It consists of a combination of ester oil, synthetic hydrocarbon oil and mineral oil and a barium complex soap. It offers good protection against wear and corrosion and is resistant to water, media and oxidation.

Application

ISOFLEX NBU 15 is primarily used for spindle bearings and high-speed plain bearings, e.g. in machine tools and textile machines. Further applications are in threaded spindles, ball screws operating under high loads, running gear bearings, as a long-term grease in cableway bearings and in precision engineering. It may also be used for the lubrication of tooth flanks in precision gears (e.g. bevel gears in milling machines, electromechanical valve actuators).

Application notes

The lubricant is applied by brush, spatula, grease gun or grease cartridge. Owing to the many elastomer and plastic compositions, we recommend checking the grease's compatibility prior to series application with elastomers or plastics.

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	ISOFLEX NBU 15
Tube 50 g	+
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+

Product data	ISOFLEX NBU 15
Article number	004026
Lower service temperature	-40 °C / -40 °F
Upper service temperature	130 °C / 266 °F
Colour space	beige
Texture	homogeneous
Texture	short-fibred



ISOFLEX NBU 15

Spindle bearing grease

Product data	ISOFLEX NBU 15
Density at 20 °C	approx. 0.99 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	265 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	295 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	4 000 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	8 000 mPas
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 21 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 4.5 mm ² /s
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176	>= 220 °C
Speed factor (n x dm)	approx. 1 600 000 mm/min
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.

Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.