

## ISOFLEX® NBU 15

### Spindle bearing grease

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#### Benefits for your application

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- 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 system
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#### 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 cable-way 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.

#### Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its original closed container in a dry, frost-free place.

#### Pack sizes

50 g PE tube  
400 g cartridge  
1 kg can  
25 kg bucket

#### Material safety data sheets

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



# ISOFLEX® NBU 15

## Spindle bearing grease

Product data	ISOFLEX® NBU 15
Service temperature range*, [°C], approx.	– 40 to 130
Color	beige
Texture	homogeneous, short-fibred
Density at 20 °C, [g/cm <sup>3</sup> ], approx.	0.99
Worked penetration, DIN ISO 2137, at 25 °C, [0.1 mm]	265 - 295
Base oil viscosity, DIN 51 562, pt. 01 at 40 °C, [mm <sup>2</sup> /s], approx. at 100 °C, [mm <sup>2</sup> /s], approx.	21 4.5
Apparent dynamic viscosity***, viscosity grade	M
Corrosion protection (Emcor test) DIN 51 802, 1 week, distilled water, corrosion degree	≤ 1
Drop point, DIN ISO 2176, [°C]	> 220
Speed factor (n x d <sub>m</sub> )**, [mm x min <sup>-1</sup> ], approx.	1,000,000

\* 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.

\*\*\* 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

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