

# ISOFLEX® NBU 15

Special greases for rolling bearings operating at high speeds and loads



## 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 / mineral oil and barium complex soap. It provides good wear and corrosion protection, and is resistant to water, ambient media and oxidation.

## Application:

These lubricants are especially suitable for high-speed plain and rolling bearings, such as spindle bearings in machine tools and textile machines, threaded spindles, ball screws subject to high loads, running gear bearings. They are also used as long-term greases for bearings in cableways and precision engineering applications, and they are suitable 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 different compositions of elastomers and plastic materials, it is indispensable to check compatibility prior to series application.

## Minimum shelf life:

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

## Pack sizes:

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

## ISOFLEX NBU 15

- Good pressure absorption capacity
- For high speeds
- Good wear protection
- Good corrosion protection
- Resistant to ageing and oxidation
- Good resistance to water and ambient media

## Product data:

	ISOFLEX NBU 15
Colour	beige
Texture	homogeneous, short-fibred
Density at 20 °C, g/cm <sup>3</sup>	0.99
Service temperature range*, °C, approx.	- 40 to 130
Drop point, DIN ISO 2176, °C, approx.	> 220
Worked penetration, DIN ISO 2137, (ASTM D 217); 0.1 mm	265 to 295
Corrosion protection (Emcor test), DIN 51 802, 1 week, distilled water, corrosion rating	0/1
Base oil viscosity, DIN 51 562/1, at 40 °C, mm <sup>2</sup> /s, approx. at 100 °C, mm <sup>2</sup> /s, approx.	21 4.7
Speed factor** (n x d <sub>m</sub> ), mm x min <sup>-1</sup> , approx.	1,000,000
Apparent viscosity***, Klüber viscosity grade	M

\* 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 mechanical 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