

# ISOFLEX NCA 15

## Spindle bearing grease



### Your benefits at a glance

- Longer rolling bearing life due to good wear protection, water resistance and pressure absorption capacity
- Tried and tested over many years especially in high-speed and low-temperature applications
- Low heating-up of bearings due to low lubricant friction leading to longer service life
- Low running torque enables energy savings, particularly at low temperatures, hence costs savings possible

### Your requirements - our solution

ISOFLEX NCA 15 is a dynamically light grease with good pressure absorption properties for plain and spindle bearings. It consists of ester oil, synthetic hydrocarbon oil, mineral oil and special calcium soap. The product is resistant to water and protects reliably against wear.

### Application

ISOFLEX NCA 15 is particularly suitable for the lubrication of spindle and tapered roller bearings, threaded spindles, ball screws subject to high loads, and for all high-speed bearings, e.g. bearings in OE-spinning turbines used in the textile industry.

### Application notes

The lubricant is applied by brush, spatula, grease gun or grease cartridge. Owing to the different compositions of elastomers and plastic materials, compatibility tests are indispensable before series application.

### 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	ISOFLEX NCA 15
Cartridge 400 g	+
Can 1 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	ISOFLEX NCA 15
Article number	004180
Composition, thickener	calcium complex soap
Composition, type of oil	ester oil , mineral oil
Colour space	beige
Texture	homogeneous , short fibrous
Service temperature, lower limit	-50 °C
Service temperature, upper limit	120 °C

# ISOFLEX NCA 15

Spindle bearing grease



Characteristics	ISOFLEX NCA 15
Density, Klüber method: PN 024, 20°C	approx. 0.94 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	265 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	295 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , lower limit	3500 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	8000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 4.5 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 21 mm <sup>2</sup> /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Low temperature torque, IP 186, -50°C, running torque	≤ 120 mNm
Low temperature torque, IP 186, -50°C, starting torque	≤ 1000 mNm
Dropping point, DIN ISO 2176 / IP 396	≥ 180 °C
Speed factor (n x dm)	approx. 1300000 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 90 years.

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