

# ISOFLEX TOPAS NCA 52

Synthetic long-term grease for rolling and plain bearings, linear motion guides



## Benefits for your application

- Reduced maintenance due to long-term or lifetime lubrication
- Reliable operation and many years of practical experience
- Wide application range even with high loads
- Low starting and running torques particularly at low temperatures ensure high efficiency and energy savings
- Longer component life due to good wear protection

## Description

ISOFLEX TOPAS NCA 52 is a synthetic long-term grease with good low-temperature properties. It has a good load-carrying capacity and ensures smooth running even at high speeds and accelerations.

The thickener made of special calcium soap ensures good adhesion to the component and good resistance to media.

The additives contained in ISOFLEX TOPAS NCA 52 increase wear protection.

## Application

ISOFLEX TOPAS NCA 52 is used for high-speed rolling and plain bearings as well as for small gears subject to high loads. Due to the good compatibility with plastics the grease is suitable for plastic-plastic or metal-plastic material combinations. The low starting torque and the good wear protection make it an ideal grease for the long-term lubrication of linear motion guides and ball screws, e.g. in handling and automation technology. ISOFLEX TOPAS NCA 52 can also be used for many automobile applications, e.g. for the lifetime lubrication of seat

rails. It is suitable for components which have to be lubricated prior to dip painting and the drying process at peak temperatures of 180 °C as the lubricant remains at the friction point and provides reliable lubrication even after short thermal treatment.

## Application notes

The lubricant is applied by means of a spatula, brush or grease gun. If automatic lubrication systems are to be used, please check pumpability beforehand.

## 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 TOPAS NCA 52
Can 1 kg	+
Bucket 25 kg	+

Product data	ISOFLEX TOPAS NCA 52
Article number	004179
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	special calcium soap
Lower service temperature	-50 °C / -58 °F
Upper service temperature	130 °C / 266 °F
Colour space	beige
Density at 20 °C	approx. 0.89 g/cm <sup>3</sup>



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Product data	ISOFLEX TOPAS NCA 52
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
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 31 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm <sup>2</sup> /s
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment: rotational viscometer, lower limit value	2 800 mPas
Shear viscosity at 25°C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer, upper limit value	5 200 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C	1 - 120 corrosion degree
Flow pressure of lubricating greases, DIN 51805, test temperature: -40 °C	<= 1 400 mbar
Speed factor (n x dm)	approx. 1 000 000 mm/min
Drop point, DIN ISO 2176, IP 396	>= 220 °C
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.

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