

# ISOFLEX TOPAS NCA 52

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



## Your benefits at a glance

- 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

## Your requirements - our solution

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.

Please note that ISOFLEX TOPAS NCA 52 takes on a beige-greenish colour under the effects of UV. This does not affect the performance of the lubricating grease.

## 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
Cartridge 370 g	+
Cartridge 400 g	+
Can 1 kg	+
Bucket 18 kg	+
Bucket 25 kg	+
Bucket 50 kg	+
Drum 180 kg	+

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Characteristics	ISOFLEX TOPAS NCA 52
Article number	004179
Composition, thickener	calcium complex soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	beige
Service temperature, lower limit	-50 °C
Service temperature, upper limit	130 °C
Density, Klüber method: PN 024, 20°C	approx. 0.89 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	2800 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	5200 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 5.9 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. 31 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, 24 h, 120°C	1 - 120 - 24 corrosion degree
Flow pressure, DIN 51805-2, -40°C	≤ 1400 mbar
Dropping point, DIN ISO 2176 / IP 396	≥ 220 °C
Speed factor (n x dm)	approx. 1000000 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.

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