

ISOFLEX TOPAS NCA 5051

Synthetic long-term grease



Your benefits at a glance

- Synthetic long-term grease with a wide temperature range
- Especially low starting and running torque
- Lubricant film spreads particularly well
- Good protection against wear
- Good anticorrosion properties
- Resistant to ageing

Your requirements - our solution

ISOFLEX TOPAS NCA 5051 is a beige-coloured synthetic long-term grease which is homogenous and short-fibred. It consists of a synthetic hydrocarbon oil and a special calcium soap.

ISOFLEX TOPAS NCA 5051 has a wide temperature range, is resistant to ageing and provides special corrosion protection. Its well-balanced texture and consistency ensures low and steady starting and running torques of the greased machine elements.

ISOFLEX TOPAS NCA 5051 protects the friction points sufficiently from corrosion and is also suitable for plastic/steel and plastic/plastic material combinations.

Application

Owing to its good low-temperature characteristics, ISOFLEX TOPAS NCA 5051 is used in plain bearings in the automotive industry.

It is also used to solve lubrication problems in control elements of the fuel feed and ignition system. ISOFLEX TOPAS NCA 5051

reliably protects small adjustment gears against wear throughout their service life. It ensures constant and low breakaway torques.

The characteristics make ISOFLEX TOPAS NCA 5051 especially suitable for the lubrication of seals in pneumatic installations.

Application notes

ISOFLEX TOPAS NCA 5051 is easy to apply to the lubrication point by means of a brush or a common metering device. In gears it is applied with a dip-feed system. If the product is stored for a longer period of time, oil may collect at the surface due to the soft consistency. A homogenous texture is regained by mechanical stirring.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Materials compatibility

Compatibility with elastomers at 100 °C/168 h, in accordance with DIN 53 521

72 NBR 902:	90 AU 924:
Change of volume (%): - 3	Change of volume (%): - 0,2
Change of hardness (Shore A): + 4	Change of hardness (Shore A): - 1

Pack sizes	ISOFLEX TOPAS NCA 5051
Cartridge 370 g	+

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Pack sizes	ISOFLEX TOPAS NCA 5051
Can 1 kg	+
Bucket 25 kg	+

Characteristics	ISOFLEX TOPAS NCA 5051
Article number	004189
Colour space	beige
Texture	homogeneous , short fibrous
Service temperature, lower limit	-50 °C
Service temperature, upper limit	120 °C
Density, Klüber method: PN 024, 20°C	approx. 0.85 g/cm ³
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	385 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	415 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , lower limit	700 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s ⁻¹ , upper limit	1500 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 5.9 mm ² /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 30 mm ² /s
Copper corrosion, DIN 51811, 24 h, 120°C	1 - 120 - 24 corrosion degree
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating
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 95 years.

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