

ISOFLEX TOPAS NCA 5051

Synthetic long-term grease



Benefits for your application

- 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

Description

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.

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.

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.

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.

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

Product data	ISOFLEX TOPAS NCA 5051
Article number	004189
Lower service temperature	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F
Colour space	beige
Texture	short-fibred



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Product data	ISOFLEX TOPAS NCA 5051
Texture	homogeneous
Density at 20 °C	approx. 0.85 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	385 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	415 x 0.1 mm
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 30 mm ² /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm ² /s
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, lower limit value	700 mPas
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ , equipment: rotational viscometer, upper limit value	1 500 mPas
Copper corrosion, DIN 51811, (lubricating grease), 24h/120 °C	1 - 120 corrosion degree
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

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

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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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