ISOFLEX® TOPAS NCA 5051
Synthetic long-term grease

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 protests 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.

ISOFLEX TOPAS NCA 5051 has a service temperature range* between – 50 and 140 °C.

Minimum shelf life:

The minimum shelf life is approx. 36 months if the product is stored in the original closed container in a dry place.

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.

ISOFLEX TOPAS NCA 5051

- 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

Package sizes:

1 kg can
25 kg bucket

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

72 NBR 902:	Change of volume (%):	– 3
	Change of hardness (Shore A):	+ 4
90 AU 924	Change of volume (%):	– 0.2
	Change of hardness (Shore A):	– 1

Product data:

Colour	beige
Texture	homogenous, short-fibred
Service temperature range*	– 50 to 140
Density, DIN 51 757, at 20 °C, g/cm^3, approx.	0.80
Drop point, DIN ISO 2176, °C	> 180
Worked penetration, DIN ISO 2137 at 25 °C	385 – 415 (0.1 mm)
Base oil viscosity, DIN 51 561 at 40 °C, mm^2/s, approx. at 100 °C, mm^2/s, approx.	30 6
Apparent dynamic viscosity at 25 °C and a shear rate of 300 s^{-1}, mPa · s, approx.	800 – 1300
Copper corrosion, DIN 51 811, after 24 h/120 °C Corrosion rating	1 – 120

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.

Klüber Lubrication, a member of the Freudenberg group

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