ISOFLEX TOPAS NB 5051

Synthetic long-term grease

Your benefits at a glance

- Synthetic long-term lubricating grease for a wide service temperature range
- Low starting and running torque
- Good wear protection
- Good corrosion protection
- Resistant to oxidation and ageing

Your requirements - our solution

ISOFLEX TOPAS NB 5051 is a beige-colored, homogeneous, short-fibred long-term grease for a wide service temperature range. It is a dynamically light grease consisting of synthetic hydrocarbon oil and barium complex soap. The barium complex soap used is not classified as harmful under the EU Directives on dangerous substances.

ISOFLEX TOPAS NB 5051 ensures low starting and running torques. In addition, it is resistant to oxidation and ageing, and protects reliably against corrosion.

Application

ISOFLEX TOPAS NB 5051 is used for plain and rolling bearings (e.g. in automotive engineering) and for gas meters. It is also used in small gears, where it reduces the noise produced by the gear wheels. ISOFLEX TOPAS NB 5051 is also suitable for the lubrication of tooth flanks in precision gears (e.g. bevel gears in milling machines, electromechanical actuators for valves).

Its good adhesion on smooth surfaces makes it ideal for the running-in lubrication (assembly) of plastic and composite bearings.

Application notes

The lubricant is applied by brush or conventional metering systems. Gears are dip-feed lubricated. Owing to the different compositions of elastomers and plastic materials, compatibility tests are indispensable before series application.

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 NB 5051
Cartridge 400 g	+
Can 500 g	+
Can 1 kg	+
Bucket 18 kg	+
Bucket 25 kg	+
Drum 180 kg	+

Characteristics	ISOFLEX TOPAS NB 5051
Article number	004128
Composition, thickener	barium complex soap

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Characteristics	ISOFLEX TOPAS NB 5051
Composition, type of oil	synthetic hydrocarbon oil
Colour space	beige
Texture	homogeneous , short fibrous
Service temperature, lower limit	-60 °C
Service temperature, upper limit	130 °C
Density, Klüber method: PN 024, 20°C	approx. 0.91 g/cm³
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 mm²/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 mm²/s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 164 h	≤ 1 corrosion degree
Flow pressure, DIN 51805-2, -60°C	≤ 1400 mbar
Dropping point, DIN ISO 22286 / IP 396	≥ 170 °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 95 years.

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