

ISOFLEX TOPAS AK 50

Low-temperature lubricating grease for plastic components



Benefits for your application

- Lubricant for plastic components
- High-speed grease
- Good corrosion protection
- Resistant to oxidation and ageing
- Good surface wetting

Description

ISOFLEX TOPAS AK 50 consists of synthetic hydrocarbon oil and aluminium complex soap. It protects against corrosion and is resistant to oxidation and ageing. In addition, it has good wetting properties and low internal lubricant friction.

Application notes

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

Application

ISOFLEX TOPAS AK 50 is suitable for the lubrication of plain and rolling bearings operating at high and/or low temperatures. It can also be used in small gears and plastic/steel as well as plastic/plastic components. It is compatible with many thermoplastics.

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 AK 50
Can 1 kg	+
Bucket 25 kg	+

Product data	ISOFLEX TOPAS AK 50
Article number	004151
Chemical composition, type of oil	synthetic hydrocarbon oil
Chemical composition, thickener	aluminium complex soap
Lower service temperature	-50 °C / -58 °F
Upper service temperature	120 °C / 248 °F
Colour space	yellow
Texture	short-fibred
Texture	homogeneous
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	355 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	385 x 0.1 mm
Density at 20 °C	approx. 0.87 g/cm ³
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	1 200 mPas



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Product data	ISOFLEX TOPAS AK 50
Shear viscosity at 25°C, shear rate 300 s ⁻¹ , equipment:rotational viscometer, upper limit value	2 000 mPas
Corrosion inhibiting properties of lubricating greases, DIN 51802, (SKF-EMCOR), test duration: 1 week, distilled water	<= 1 corrosion degree
Drop point, DIN ISO 2176, IP 396	>= 200 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months

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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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