

# ISOFLEX TOPAS AK 50

Low-temperature lubricating grease for plastic components



## Your benefits at a glance

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

## Your requirements - our solution

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

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.

## 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.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	ISOFLEX TOPAS AK 50
Cartridge 370 g	+
Can 1 kg	+
Bucket 25 kg	+

Characteristics	ISOFLEX TOPAS AK 50
Article number	004151
Composition, thickener	aluminium complex soap
Composition, type of oil	synthetic hydrocarbon oil
Colour space	yellow
Texture	homogeneous , short fibrous
Service temperature, lower limit	-50 °C
Service temperature, upper limit	120 °C
Density, Klüber method: PN 024, 20°C	approx. 0.87 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	355 0.1 mm

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Characteristics	ISOFLEX TOPAS AK 50
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	385 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , lower limit	1200 mPas
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s <sup>-1</sup> , upper limit	2000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 100°C	approx. 5.9 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 51562-1 / ASTM D445 / ASTM D7042, 40°C	approx. 30 mm <sup>2</sup> /s
SKF-EMCOR, DIN 51802, Klüber method: distilled water, 168 h	≤ 1 corrosion degree
Dropping 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

## 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 90 years.

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