

# ISOFLEX TOPAS OPN 4

Synthetic thread and sealing grease



## Benefits for your application

- Thread and sealing grease
- Wide service temperature range
- Resistant to oxidation and ageing
- Good sliding friction properties at low temperatures
- Good corrosion protection

## Description

ISOFLEX TOPAS OPN 4 is a synthetic thread and sealing grease for precision engineering applications and optical components. It consists of synthetic hydrocarbon oil and barium complex soap. It protects against corrosion, is resistant to oxidation and ageing, and can be used in a wide service temperature range.

## Application

ISOFLEX TOPAS OPN 4 is suitable as a sealing grease for lens threads and adjusting units in photo and precision optical equipment, and as an instrument grease in telecommunications, data processing and precision engineering applications.

ISOFLEX TOPAS OPN 4 is particularly adhesive and has good low-temperature properties, thus ensuring uniform actuation torques at low temperatures. Condensation is not expected on optical glass surfaces.

## Application notes

The lubricant is applied to the clean friction point by brush or spatula. 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 OPN 4
Can 1 kg	+

  

Product data	ISOFLEX TOPAS OPN 4
Article number	004132
Lower service temperature	-35 °C / -31 °F
Upper service temperature	150 °C / 302 °F
Colour space	beige
Texture	homogeneous
Texture	short-fibred
Density at 20 °C	approx. 1.00 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	210 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	230 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> ; equipment:rotational viscometer	approx. 10 000 mPas



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Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 30 mm <sup>2</sup> /s
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm <sup>2</sup> /s
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	> 220 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 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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