

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. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	ISOFLEX TOPAS OPN 4
Can 1 kg	+



ISOFLEX TOPAS OPN 4

Synthetic thread and sealing grease

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 g/cm ³
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 ⁻¹ ; equipment:rotational viscometer	approx. 10 000 mPas
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, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 5.9 mm ² /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	> 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

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 80 years.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.**

The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München SE & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München SE & Co. KG and if source is indicated and voucher copy is forwarded.



a company of the Freudenberg Group