

ISOFLEX® TOPAS NCA 52

Synthetic long-term grease for rolling and plain bearings,
linear motion guides

Benefits for your application

- **Reduced maintenance due to long-term or lifetime lubrication**
 - **Reliable operation and many years of practical experience**
 - **Wide application range even with high loads**
 - **Low starting and running torques particularly at low temperatures ensure high efficiency and energy savings**
 - **Longer component life due to good wear protection**
-

Application

ISOFLEX TOPAS NCA 52 is used for high-speed rolling and plain bearings as well as for small gears subject to high loads. Due to the good compatibility with plastics the grease is suitable for plastic-plastic or metal-plastic material combinations. The low starting torque and the good wear protection make it an ideal grease for the long-term lubrication of linear motion guides and ball screws, e.g. in handling and automation technology. ISOFLEX TOPAS NCA 52 can also be used for many automobile applications, e.g. for the lifetime lubrication of seat rails. It is suitable for components which have to be lubricated prior to dip painting and the drying process at peak temperatures of 180°C as the lubricant remains at the friction point and provides reliable lubrication even after short thermal treatment.

Description

ISOFLEX TOPAS NCA 52 is a synthetic long-term grease with good low-temperature properties. It has a good load-carrying capacity and ensures smooth running even at high speeds and accelerations. The thickener made of special calcium soap ensures good adhesion to the component and good resistance to media.

The additives contained in ISOFLEX TOPAS NCA 52 increase wear protection.

Application notes

The lubricant is applied by means of a spatula, brush or grease gun. If automatic lubrication systems are to be used, please check pumpability beforehand.

Minimum shelf life

The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes

400 g cartridge
1 kg can
25 kg bucket

Material Safety Data Sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.



ISOFLEX[®] TOPAS NCA 52

Synthetic long-term grease for rolling and plain bearings,
linear motion guides

Product data	ISOFLEX TOPAS NCA 52
Composition, oil type Composition, thickener	synthetic hydrocarbon oil, special calcium soap
Service temperature range*, [°C], approx.	-50 to 130
Color	beige
Density at 20 °C, [g/cm ³], approx.	0.89
Worked penetration, DIN ISO 2137, (ASTM D 217); [0.1 mm]	265 to 295
Base oil viscosity, DIN 51 562 pt. 01 at 40°C, [mm ² /s], approx. at 100°C, [mm ² /s], approx.	30.0 5.9
Drop point, DIN ISO 2176, [°C]	> 220
Flow pressure of lubricating greases, DIN 51805, -40 °C, [mbar]	< 1400
Corrosion protection, DIN 51 802, (SKF-EMCOR), duration of test: 1 week, distilled water	≤ 1
Copper corrosion (lubricating grease), DIN 51 811, after 24 h / 120°C, corrosion degree	1-120
Speed factor** (n x dm), [mm x min ⁻¹], approx.	1,000,000
Apparent dynamic viscosity***, Klüber viscosity class	L/M

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** Speed factors are guide values which depend on the type and size of the rolling bearing type and the local operating conditions, which is why they have to be confirmed in tests carried out by the user in each individual case

*** Klüber viscosity grades: EL = extra light lubricating grease; L = light lubricating grease; M = medium lubricating grease; S = heavy lubricating grease; ES = extra heavy lubricating grease

Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

The data in this product information is based on our general experience and knowledge at the time of printing 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 tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.



Klüber Lubrication, a company of the Freudenberg Group

Publisher and Copyright: Klüber Lubrication München KG. Reprints, total or in part, are permitted if source is indicated and voucher copy is forwarded.