

Description:

ISOFLEX TOPAS NB 52 is a lubricating grease with a wide service temperature range for plain and rolling bearings. It consists of synthetic hydrocarbon oil and barium complex soap. It is resistant to water, ambient media, oxidation and ageing, and it protects reliably against corrosion.

Application:

ISOFLEX TOPAS NB 52 is used in high-speed, high-load plain and rolling bearings operating at high and/or low temperatures.

It is also suitable for electric contacts and components. Properly applied, ISOFLEX TOPAS NB 52 reduces electrical resistance in the lubrication point (e.g. electro-conductive flexible roller bearings, interrupter tubes).

In addition, the product is resistant to many synthetic materials.

Owing to the different compositions of elastomers and plastic materials, compatibility tests are indispensable before series application.

Application notes:

The lubricant is applied by brush, spatula, or grease gun.

Minimum shelf life:

The minimum shelf life is approx. 60 months if the product is stored in the original closed container in a dry place.

Package sizes:

400 g cartridge
1 kg can
25 kg bucket

ISOFLEX TOPAS NB 52

- Synthetic grease for plain and rolling bearings for a wide temperature range
- Good pressure absorption
- Good resistance to water and ambient media
- Good corrosion protection
- Good resistance to oxidation and ageing

Product data:

Colour	beige
Texture	homogeneous, short-fibred
Density at 20 °C, g/cm ³ , approx.	0.96
Service temperature range*, °C, approx.	– 50 to 130
Drop point, DIN ISO 2176, °C	> 240
Worked penetration, DIN ISO 2137, (ASTM D 217); 0.1 mm	265 to 295
Corrosion protection (Emcor test), DIN 51 802, 1 week, distilled water, corrosion rating	0
Base oil viscosity, DIN 51 562/1 at 40 °C, mm ² /s, approx.	30.0
at 100 °C, mm ² /s, approx.	5.5
Speed factor** (n x d _m), mm x min ⁻¹ , approx.	1,000,000
Apparent dynamic viscosity, Klüber viscosity grade***	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 mechanical 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

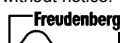
ISOFLEX® TOPAS NB 52

Safety Data Sheet

1.1	Product name: ISOFLEX TOPAS NB 52 Code-No.: 004 131 15.11.2001						
1.2	Klüber Lubrication München KG Geisenhausenerstraße 7 D-81379 München Tel. ++49 - 89 78 76 - 0 telephone exchange Fax: ++49 - 89 78 76 - 333 Emergency telephone no.: ++49 - 89 7876 - 0						
2.	Composition / information on ingredients Chemical characterization (preparation): Synthetic hydrocarbon oil, barium complex soap Hazardous ingredients <table><tr><td>Components</td><td>Value</td><td>R-phrases</td></tr><tr><td>Barium soap</td><td>> 25%</td><td>52/53</td></tr></table>	Components	Value	R-phrases	Barium soap	> 25%	52/53
Components	Value	R-phrases					
Barium soap	> 25%	52/53					
3.	Hazards identification R phrases: 52/53. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Prolonged skin contact may cause skin irritation and/or dermatitis						
4.	First aid measures After inhalation: Not applicable After contact with skin: Wash off with mild cleaners and plenty of water. If symptoms persist, call a physician After contact with eyes: Rinse with plenty of water. If symptoms persist, call a physician After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically						
5.	Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for chemical fires Additional information: Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes						
6.	Accidental release measures Personal precautions: Not required Environmental precautions: Do not flush into surface water or sanitary sewer system Methods for cleaning up / taking up: Use mechanical handling equipment. Dispose of absorbed material in accordance with the regulations Additional information: None						
7.	Handling and storage Advice on safe handling: No special handling advice required Advice on protection against fire and explosion: No special precautions required Requirements on storage rooms and vessels: Store at room temperature in the original container Incompatible materials: Incompatible with oxidizing agents. Do not store together with food Further information on storage conditions: None						
8.	Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required Hand protection: No special protective equipment required Eye protection: No special protective equipment required Body protection: No special protective equipment required Other protection measures: No special protective equipment required						

General protection and hygiene measures: Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream
9. Physical and chemical properties Form: paste Colour: beige Odour: characteristic Drop point: > 240 °C, DIN ISO 2176 Flash point: > 200 °C (base oil) Ignition temperature: not applicable Lower explosion limit: not applicable Upper explosion limit: not applicable Vapour pressure-first: not applicable Density: approx. 0.96 g/cm ³ , 20 °C Water solubility: insoluble pH value: not applicable Kinematic viscosity: not applicable Further information: none
10. Stability and reactivity Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use Additional information: None
11. Toxicological information Prolonged skin contact may cause skin irritation and/or dermatitis
12. Ecological information Information on elimination (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Additional information: Should not be released into the environment
13. Advice on Disposal Code of waste: 120 112. Wastes from shaping and surface treatment of metals and plastics; wastes from shaping (including forging, welding, pressing, drawing, turning, cutting and filling); spent waxes and fats Disposal: The code of waste has to correspond to the Council Directive 75/442/EEC and be specific as far as the related sector and process are concerned. Can be incinerated when in compliance with local, state and federal regulations Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities
14. Transport information GGVS / GGVE: not applicable ADN / ADN: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: not applicable Further information: Not classified as dangerous in the meaning of transport regulations
15. Regulatory information Labelling according to EU-guidelines: The product is classified and labelled in accordance with EC-directive 99/45/CE R phrases: 52/53. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment S phrases: 61. Avoid release to the environment. Refer to special instructions / Safety data sheets National regulations: Labelling according to the Swiss regulations: No toxicological class, BAGT-no. 83029
16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, Tel.: ++49 - 89 7876 - 564

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 München KG, a member of the Freudenberg group