# **ISOFLEX® TOPAS NCA 52**

Synthetic long-term grease for plain and rolling bearings



## **Description:**

ISOFLEX TOPAS NCA 52 is a synthetic long-term grease for a wide service temperature range. It consists of synthetic hydrocarbon oil and special calcium soap, and it has good pressure absorption properties.

### **Application:**

ISOFLEX TOPAS NCA 52 is suitable for plain and rolling bearings, and for small gears subject to high specific loads. It is also used in plastic/plastic and plastic/steel components. The low base oil viscosity ensures low starting torques even at low temperatures.

#### **Application notes:**

The lubricant is applied by brush, spatula, grease gun or grease cartridge. Owing to the different compositions of elastomers and plastic materials, compatibility tests are indispensable before series application.

#### Minimum shelf life:

The minimum shelf life is approx. 36 months if the product is stored in the original closed container in a dry place.

#### Pack sizes:

400 g cartridge 1 kg can 25 kg bucket

### **ISOFLEX TOPAS NCA 52**

- synthetic long-term grease
- good pressure absorption
- low starting and running torque
- good wear protection
- resistant to oxidation and ageing

## Product data:

Colour	beige		
Texture	homogeneous short-fibred		
Density at 20 °C, g/cm <sup>3</sup> , approx.	0.89		
Service temperature range*, °C, approx.	– 50 to 130		
Drop point, DIN ISO 2176, °C	> 220		
Worked penetration, DIN ISO 2137 (ASTM D 217); 0.1 mm	265 to 295		
Copper corrosion (lubricating grease), DIN 51 811, after 24 h / 120 °C, corrosion rating	1 – 120		
Base oil viscosity, DIN 51 562/1 at 40 °C, mm²/s, approx. at 100 °C, mm²/s, approx.	30.0 5.6		
Speed factor <sup>**</sup> (n x d <sub>m</sub> ), mm x min <sup>-1</sup> , approx.	1,000,000		
Apparent dynamic viscosity***, Klüber viscosity grade	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 mechanodynamical 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

## 广州孚润 400-992-6811

## ISOFLEX® TOPAS NCA 52 Safety Data Sheet

1.1	Product name: ISOFLEX TOPAS NCA 52		Physical and chemical pr	operties
	Code-No.: 004 179		Form	paste
	26.06.2001		Colour	beige
			Odour	characteristic
-			Drop point	> 220 °C, DIN ISO 2176
.2	Klüber Lubrication München KG Emergency telephone no.:		Flash point	> 200 °C (base oil)
	Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Ignition temperature	not applicable
	D-81379 München		Lower explosion limit	not applicable
	Tel. ++49 - 89 78 76 - 0 telephone exchange			
	Fax: ++49 - 89 78 76 - 333		Upper explosion limit	not applicable
			Vapour pressure-first	not applicable
			Density	approx. 0.89 g/cm <sup>3</sup> , 20 °C
2.	Composition / information on ingredients		Water solubility	insoluble
	Chemical characterization (preparation): Synthetic hydrocarbon oil,		pH value	not applicable
	special calcium soap			
			Kinematic viscosity	not applicable
			Further information	none
3.	Hazards identification			
	No particular hazards known	10	Stability and reactivity	
		10.	Conditions to avoid: None	
4.	First aid measures		Materials to avoid: Strong o	5 5
	After inhalation: Not applicable		Hazardous decomposition	products: None under normal use
	After contact with skin: Wash off with soap and plenty of water		Additional information: Non	e
	After contact with eyes: Rinse with plenty of water			
	After ingestion: Do not induce vomiting. Obtain medical attention			
	5	11.	Toxicological information	1
	Advice to doctor: Treat symptomatically			been taken from products of similar
			composition	
-	Fire fighting measures		Acute toxicity: LD <sub>50</sub> /oral/rat	$= > 2 \alpha/k\alpha$ (literature data)
5.	Fire-fighting measures		,	
	Suitable extinguishing media: Water spray, foam, dry powder,		Chronic toxicity: None	
	carbon dioxide (CO <sub>2</sub> )		Human experience: Prolong	ged skin contact may cause skin irritation
	Unsuitable extinguishing media: High volume water jet		and/or dermatitis	
	Special Hazards: In case of fire the following can be released: Carbon			
	monoxide, hydrocarbons			
	Special protective equipment for firefighters: Standard procedure for	12	Ecological information	
	chemical fires			persistence and degradability): Product is
				separated out mechanically in purification
	Additional information: Water mist may be used to cool closed		plants	separated out mechanically in purification
	containers. In the event of fire and/or explosion do not breathe fumes			
				l compartments: Ecological injuries are not
			known or expected under n	ormal use
6.	Accidental release measures		Ecotoxic effects: Aquatic to	xicity is unlikely due to low solubility
	Personal precautions: Not required		Additional information Sho	uld not be released into the environment
	Environmental precautions: Do not flush into surface water or sanitary			
	sewer system			
	Methods for cleaning up / taking up: Use mechanical handling equip-	12	Advice on Disposal	
	ment. Dispose of absorbed material in accordance with the regulations	13.		the state of the s
				astes from shaping and surface treatment
	Additional information: None			tes from shaping (including forging, welding
				cutting and filling); spent waxes and fats
				ed when in compliance with local, state and
7.	Handling and storage		federal regulations	
	Advice on safe handling: No special handling advice required		Dispose of contaminated pa	ackaging and recommended cleaning: Offe
	Advice on protection against fire and explosion: No special precautions		rinsed packaging material t	o local recycling facilities
	required			
	Requirements on storage rooms and vessels: No special storage			
	conditions required	14.	Transport information	
	Incompatible materials: Incompatible with oxidizing agents. Do not store		GGVS / GGVE:	not applicable
	together with food		ADN / ADNR:	not applicable
	0		IMDG-Code:	not applicable
	Further information on storage conditions: Store at room temperature in		ICAO / IATA-DGR:	not applicable
	the original container			ssified as dangerous in the meaning of
			transport regulations	active up dangeroup in the meaning of
2	Exposure controls / personal protection			
B.	Exposure controls / personal protection			
	Additional advice on system design: Not applicable	4 -	Pogulaton, information	
	Ingredients and specific control parameters: None	15.	Regulatory information	and the second
	Respiratory protection: No special protective equipment required			guidelines: The product does not require a
				ordance with EC-directives/German
	Hand protection: No special protective equipment required		regulations on dangerous s	substances
	Eye protection: No special protective equipment required		National regulations	
	Body protection: No special protective equipment required		<b>C</b>	
	Other protection measures: No special protective equipment required			
			Other information	
	Operand protection and burning a set of the set of the	4.0		
	General protection and hygiene measures: Avoid prolonged and/or	16.	Other information	Data Shoot: Chamical Decumentation
	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	16.		Data Sheet: Chemical Documentation,

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.

Freudenberg

Klüber Lubrication München KG, a member of the Freudenberg group

Publisher and Copyright: Klüber Lubrication München KG