ISOFLEX® TOPAS NCA 5051 Synthetic long-term grease



Description:

ISOFLEX TOPAS NCA 5051 is a beige-coloured synthetic long-term grease which is homogenous and short-fibred. It consists of a synthetic hydrocarbon oil and a special calcium soap.

ISOFLEX TOPAS NCA 5051 has a wide temperature range, is resistant to ageing and provides special corrosion protection. Its well-balanced texture and consistency ensures low and steady starting and running torques of the greased machine elements.

ISOFLEX TOPAS NCA 5051 protests the friction points sufficiently from corrosion and is also suitable for plastic/steel and plastic/plastic material combinations.

Application:

Owing to its good low-temperature characteristics, ISOFLEX TOPAS NCA 5051 is used in plain bearings in the automotive industry.

It is also used to solve lubrication problems in control elements of the fuel feed and ignition system. ISOFLEX TOPAS NCA 5051 reliably protects small adjustment gears against wear throughout their service life. It ensures constant and low breakaway torques.

The characteristics make ISOFLEX TOPAS NCA 5051 especially suitable for the lubrication of seals in pneumatic installations.

Application notes:

ISOFLEX TOPAS NCA 5051 is easy to apply to the lubrication point by means of a brush or a common metering device. In gears it is applied with a dip-feed system. ISOFLEX TOPAS NCA 5051 has a service temperature range* between – 50 and 140 °C.

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.

If the product is stored for a longer period of time, oil may collect at the surface due to the soft consistency. A homogenous texture is regained by mechanical stirring.

ISOFLEX TOPAS NCA 5051

- Synthetic long-term grease with a wide temperature range
- Especially low starting and running torque
- Lubricant film spreads particularly well
- Good protection against wear
- Good anticorrosion properties
- Resistant to ageing

Package sizes:

1 kg can 25 kg bucket

Compatibility wi DIN 53 521	th elastomers at 100 °C/168 h, in ac	100 °C/168 h, in accordance with		
72 NBR 902:	Change of volume (%): Change of hardness (Shore A):	– 3 + 4		
90 AU 924	Change of volume (%): Change of hardness (Shore A):	- 0.2 - 1		

Product data:

Colour	beige	
Texture	homogenous, short-fibred	
Service temperature range*	– 50 to 140	
Density, DIN 51 757, at 20 °C, g/cm ³ , approx.	0.80	
Drop point, DIN ISO 2176, °C	> 180	
Worked penetration, DIN ISO 2137 at 25 °C	385 – 415 (0.1 mm)	
Base oil viscosity, DIN 51 561 at 40 °C, mm²/s, approx. at 100 °C, mm²/s, approx.	30 6	
Apparent dynamic viscosity at 25 °C and a shear rate of 300 s ⁻¹ , mPa \cdot s, approx.	800 – 1300	
Copper corrosion, DIN 51 811, after 24 h/120 °C Corrosion rating	1 – 120	

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.

ISOFLEX[®] TOPAS NCA 5051 Safety Data Sheet

1.1 Product name: ISOFLEX TOPAS NCA 5051		9. Physical and chemical properties		
	Code-No.: 004 189 26.06.2001		Form	paste
	20.00.2001		Colour	biege
			Odour	characteristic
.2	Klüber Lubrication München KG Emergency telephone no.:		Drop point	> 180 °C, DIN ISO 2176
	Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Flash point	> 200 °C (base oil)
	D-81379 München		Flammability	not applicable
	Tel. ++49 - 89 78 76 - 0 telephone exchange		Ignition temperature	not applicable
	Fax: ++49 - 89 78 76 - 333		Autoflammability	not applicable
			Lower explosion limit	not applicable
			Upper explosion limit	not applicable
	Composition / information on ingredients		Vapour pressure-first	not applicable
	Chemical characterization (preparation): Synthetic hydrocarbon oil,		Density	approx. 0.85 g/cm ³ , 20 °C
	special calcium soap		Water solubility	insoluble
			pH value	
			r	not applicable
	Hazards identification		Kinematic viscosity	not applicable
	No particular hazards known		Further information	none
		10.	Stability and reactivity	
	First aid measures		Conditions to avoid: None	
	After inhalation: Not applicable	Materials to avoid: Strong oxidizing agents		
	After contact with skin: Wash off with soap and plenty of water		•	products: None under normal use
	After contact with eyes: Rinse with plenty of water			
	After ingestion: Do not induce vomiting. Obtain medical attention		Additional information: Nor	le
	Advice to doctor: Treat symptomatically	11.	Toxicological information	n
				been taken from products of similar
	Fire-fighting measures		composition	and a set of the producto of official
	Suitable extinguishing media: Water spray, foam, dry powder,			t = > 2 g/kg (literature data)
	carbon dioxide (CO_2)			
	Unsuitable extinguishing media: High volume water jet		Chronic toxicity: None	
				ged skin contact may cause skin irritation
	Special Hazards: In case of fire the following can be released: Carbon		and/or dermatitis	
	monoxide, hydrocarbons			
	Special protective equipment for firefighters: Standard procedure for			
	chemical fires	12.	Ecological information	
	Additional information: Water mist may be used to cool closed		Information on elimination	(persistence and degradability): Product is
	containers. In the event of fire and/or explosion do not breathe fumes		insoluble in water. May be	separated out mechanically in purification
			plants	
			Behaviour in environmenta	I compartments: Ecological injuries are not
5 .	Accidental release measures		known or expected under r	normal use
	Personal precautions: Not required		Ecotoxic effects: Aquatic to	exicity is unlikely due to low solubility
	Environmental precautions: Do not flush into surface water or sanitary			ould not be released into the environment
	sewer system		, additional mormation. She	
	Methods for cleaning up / taking up: Use mechanical handling equip-	-		
	ment. Dispose of absorbed material in accordance with the regulations	13	Advice on Disposal	
	Additional information: None			astes from shaping and surface treatment
	Additional Information. None			stes from shaping (including forging, welding
				cutting and filling); spent waxes and fats
	Handling and storage			ed when in compliance with local, state and
•				eu when in compliance with local, state and
	Advice on safe handling: No special handling advice required		federal regulations	
	Advice on protection against fire and explosion: No special precautions			ackaging and recommended cleaning: Offe
	required		rinsed packaging material	to local recycling facilities
	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
	Further information on storage conditions: Store at room temperature in		IMDG-Code:	not applicable
				not applicable
	the original container		ICAO / IATA-DGR:	
				assified as dangerous in the meaning of
	the original container			assified as dangerous in the meaning of
	the original container Exposure controls / personal protection		Further information: Not cla	assified as dangerous in the meaning of
	the original container Exposure controls / personal protection Additional advice on system design: Not applicable		Further information: Not cla transport regulations	assified as dangerous in the meaning of
3.	the original container Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None	15.	Further information: Not cla transport regulations Regulatory information	
-	the original container Exposure controls / personal protection Additional advice on system design: Not applicable	15.	Further information: Not cla transport regulations Regulatory information Labelling according to EU-	guidelines: The product does not require a
5.	the original container Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required	15.	Further information: Not cla transport regulations Regulatory information Labelling according to EU- hazard warning label in acc	guidelines: The product does not require a cordance with EC-directives/German
•	the original container 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	15.	Further information: Not cla transport regulations Regulatory information Labelling according to EU-	guidelines: The product does not require a cordance with EC-directives/German
	the original container 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	15.	Further information: Not cla transport regulations Regulatory information Labelling according to EU- hazard warning label in acc	guidelines: The product does not require a cordance with EC-directives/German
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3.	the original container 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	15.	Further information: Not cla transport regulations Regulatory information Labelling according to EU- hazard warning label in acc regulations on dangerous s	guidelines: The product does not require a cordance with EC-directives/German
5.	the original container 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		Further information: Not cla transport regulations Regulatory information Labelling according to EU- hazard warning label in acc regulations on dangerous s	guidelines: The product does not require a cordance with EC-directives/German
	the original container 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		Further information: Not cla transport regulations Regulatory information Labelling according to EU- hazard warning label in acc regulations on dangerous s National regulations Other information	guidelines: The product does not require a cordance with EC-directives/German

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

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