ISOFLEX® NCA 15 High-speed lubricating grease for plain and rolling bearings

Description:

ISOFLEX NCA 15 is a dynamically light grease with good pressure absorption properties for plain and rolling bearings. It consists of ester oil, synthetic hydrocarbon oil, mineral oil and special calcium soap. The product is resistant to water and protects reliably against wear.

Application:

ISOFLEX NCA 15 is particularly suitable for the lubrication of spindle and tapered roller bearings, threaded spindles, ball screws subject to high loads, and for all high-speed bearings, e.g. bearings in OE-spinning turbines used in the textile industry. It is also suitable for tooth flanks of precision gears (bevel gears in milling machines).

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 NCA 15

- Rolling bearing grease
- For very high speeds
- Good pressure absorption
- Good resistance to water
- Good wear protection
- Resistant to oxidation and ageing

Product data:

Colour	beige
Texture	homogeneous, short-fibred
Density, at 20 °C, g/cm ³ , approx.	0.94
Service temperature range*, °C, approx.	– 50 to 120
Drop point, DIN ISO 2176, °C	> 180
Worked penetration, DIN ISO 2137, (ASTM D 217); 0.1 mm	265 to 295
Water resistance, DIN 51 807/1, 3 h / 90 °c, rating	0/1 – 90
Base oil viscosity, DIN 51 562/1, at 40 °C, mm²/s, approx. at 100 °C, mm²/s, approx.	23.0 4.7
Speed factor ^{**} (n x d _m), mm x min ⁻¹ , approx.	1,300,000
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



ISOFLEX[®] NCA 15 Safety Data Sheet

1.1	Product name: ISOFLEX NCA 15		9. Physical and chemical properties	
	Code-No.: 004 180 19.01.2001		Form	paste
	15.01.2001		Colour	beige
			Odour	characteristic
2	Klüber Lubrigation München KC		Drop point	> 180 °C, DIN ISO 2176
.2	Klüber Lubrication München KG Emergency telephone no.: Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Flash point	> 200 °C (base oil)
			Ignition temperature	not applicable
	D-81379 München		Lower explosion limit	not applicable
	Tel. ++49 - 89 78 76 - 0 telephone exchange		Upper explosion limit	not applicable
	Fax: ++49 - 89 78 76 - 333			
			Vapour pressure-first	not applicable
			Density	approx. 0.94 g/cm ³ , 20 °C
2.	Composition / information on ingredients		Water solubility	insoluble
	Chemical characterization (preparation): Ester oil, synthetic hydrocarbon		pH value	not applicable
	oil, mineral oil, special calcium soap		Kinematic viscosity Further information	not applicable none
	Hazards identification			none
	No particular hazards known	10.	Stability and reactivity Conditions to avoid: None	
				ovidizing agonte
4.	First aid measures		Materials to avoid: Strong oxidizing agents	
	After inhalation: Not applicable			products: None under normal use
	After contact with skin: Wash off with soap and plenty of water		Additional information: No	ne
	After contact with eyes: Rinse with plenty of water			
	After ingestion: Do not induce vomiting. Obtain medical attention	11	Toxicological informatio	n
	Advice to doctor: Treat symptomatically		The toxicological data has	been taken from products of similar
_			composition	
5.	Fire-fighting measures		,	t = > 2 g/kg (literature data)
	Suitable extinguishing media: Water spray, foam, dry powder,		Chronic toxicity: None	
	carbon dioxide (CO ₂)			nged 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
	Additional information: Water mist may be used to cool closed			separated out mechanically in purification
	containers. In the event of fire and/or explosion do not breathe fumes		plants	separated out mechanically in pumication
	containers. In the event of the and/or explosion do not breathe futnes		•	
				al compartments: Ecological injuries are not
			known or expected under	
6.	Accidental release measures		Ecotoxic effects: Aquatic to	oxicity is unlikely due to low solubility
	Personal precautions: Not required		Additional information: Sho	ould 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-			
	ment. Dispose of absorbed material in accordance with the regulations	13.	Advice on Disposal	
	Additional information: None			ed when in compliance with local, state and
			federal regulations	
				backaging and recommended cleaning: Offe
7.	Handling and storage		rinsed packaging material	to local recycling facilities
	Advice on safe handling: No special handling advice required			
	Advice on protection against fire and explosion: No special precautions	4.4	Transport information	
	required	14.	Transport information	not onnlisstis
	Requirements on storage rooms and vessels: Store at room temperature		GGVS / GGVE:	not applicable
	in the original container		ADN / ADNR:	not applicable
	Incompatible materials: Incompatible with oxidizing agents. Do not store		IMDG-Code:	not applicable
	together with food		ICAO / IATA-DGR:	not applicable
	Further information on storage conditions: None		Further information: Not cl transport regulations	assified as dangerous in the meaning of
8.	Exposure controls / personal protection	15	Regulatory information	
	Additional advice on system design: Not applicable			guidelines: The product does not require a
	Ingredients and specific control parameters: None		hazard warning label in ac	cordance with EC-directives/German
	Respiratory protection: No special protective equipment required		regulations on dangerous	
	Hand protection: No special protective equipment required			
				Iling according to the Swiss regulations: No
	Eye protection: No special protective equipment required		toxicological class, BAGT-	0. 011500
	Body protection: No special protective equipment required			
	Other protection measures: No special protective equipment required			
	General protection and hygiene measures: Avoid prolonged and/or	16	Other information	
	repeated contact with skin. Remove soiled or soaked clothing im-	10.		y Data Sheet: Chemical Documentation,
			issue acparation of odel	
	mediately. Clean skin thoroughly after work; apply skin cream		Tel.: ++49 - 89 7876 - 564	

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

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