MICROLUBE® GB 0 Universal high-performance lubricant



Description:

MICROLUBE GB 0 is a special mineral oil based lubricant. It has a high pressure absorption capacity, provides excellent protection against wear and corrosion, and shows a good wetting behaviour and water resistance.

Application:

MICROLUBE GB 0 was especially developed for friction points subject to high loads and mixed friction conditions.

It is a universal grease suitable for the lubrication of eccentric presses (e.g. make Müller-Weingarten), heavy-duty spur and bevel gears with steel/steel components (e.g. gear motors that are not oiltight), slideways, guides and sump lubricated rolling bearings.

In the special FZG test A/2.76/50 this product achieves a scuffing load stage > 12 and a specific change in weight of < 0.2 mg/kWh.

Application notes:

MICROLUBE GB 0 is applied by brush, spatula, grease gun or centralized lubrication system.

Immersion lubrication of gears is possible up to a peripheral speed of approx. 3 m/s or via forced-feed lubrication.

Service temperature range

Approx. - 20 to 90 °C in centralized or forced-feed systems, and approx. 0 to 100 °C in case of immersion lubrication.

The lubricant film is functional to approx. - 25 °C.

The thermal load-carrying capacity of the lubricant film depends on relubrication and is up to approx. 150 °C.

The indicated temperatures are approximate values depending on the lubricant's composition, the intended use and the application method.

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:

1 kg can 25 kg drum 180 kg container

Product data:

Colour reddish brown Texture homogeneous, transparent Density, DIN 51 757, at 20 °C, g/cm³, approx. 0.9 Drop point, DIN ISO 2176, °C > 180 0 Consistency grade, DIN 51 818, NLGI Worked penetration, DIN ISO 2137, 0.1 mm 355 to 385 Base oil viscosity, DIN 51 561, mm²/s, at 40 °C, approx. 400 at 100 °C, approx. 25 Apparent viscosity, KL viscosity grade* L Flow pressure, DIN 51 805, at - 25 °C, mbar < 1400

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

MICROLUBE GB 0

- Universal high-performance lubricant
- High pressure absorption capacity
- Good wear protection
- Good anticorrosion behaviour
- Pumpable through centralized systems
- Special FZG test A/2.76/50, scuffing load stage > 12

MICROLUBE® GB 0 Safety Data Sheet

1.1	Product name: MICROLUBE GB 0 Code-No.: 020 232		Physical and chemical properties Form paste	
	30.04.1999		Colour	red brown
			Odour	characteristic
1.2	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 Tel. ++49 - 89 78 76 - 0 telephone exchange		Flammability	not applicable
	Fax: ++49 - 89 78 76 - 333		Ignition temperature Autoflammability	not applicable not applicable
	14		Lower explosion limit	not applicable
			Upper explosion limit	not applicable
2.	Composition / information on ingredients		Vapour pressure-first	not applicable
	Chemical characterization (preparation): Mineral oil, lithium soap, silicate		Density	approx. 0.90 g/cm ³ , 20 °C
	Additional information: No hazardous ingredients		Water solubility	insoluble
			pH value	not applicable
			Kinematic viscosity	not applicable
3.	Hazards identification No particular hazards known		Further information	none
4.	First aid measures	10.	Stability and reactivity	
-	After inhalation: Not applicable		Conditions to avoid: None	
	After contact with skin: Wash off with soap and plenty of water		Materials to avoid: Strong of	oxidizing agents
	After contact with eyes: Rinse with plenty of water		•	products: None under normal use
	After ingestion: Do not induce vomiting. Obtain medical attention		Additional information: Non	
	Advice to doctor: Treat symptomatically		Toxicological information	
5.	Fire-fighting measures	11.		l been taken from products of similar
	Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide (CO ₂)		composition Acute toxicity: LD ₅₀ /oral/rat	$= 2 \alpha/k\alpha$ (literature data)
	Unsuitable extinguishing media: High volume water jet		,	= > 2 g/kg (illerature data)
	Special Hazards: In case of fire the following can be released: Carbon			ged skin contact may cause skin irritation
6.	monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for		and/or dermatitis	
	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	12.	Ecological information	
	containers. In the event of fire and/or explosion do not breathe turnes		insoluble in water. May be	persistence and degradability): Product is separated out mechanically in purification
	Accidental release measures		plants Behaviour in environmenta	l compartments: Ecological injuries are not
	Personal precautions: Not required		known or expected under n	
	Environmental precautions: Do not flush into surface water or sanitary			xicity is unlikely due to low solubility
	sewer system			uld not be released into the environment
	Methods for cleaning up / taking up: Use mechanical handling equip-			
	ment. Dispose of absorbed material in accordance with the regulations			
	Additional information: None	13.	Advice on Disposal	
				ed when in compliance with local, state and
7	Handling and storage		federal regulations	
7.	Advice on safe handling: No special handling advice required			ackaging and recommended cleaning: Offe
	Advice on protection against fire and explosion: No special precautions		rinsed packaging material t	
	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
	Further information on storage conditions: Store at room temperature in		IMDG-Code: ICAO / IATA-DGR:	not applicable not applicable
	the original container			issified as dangerous in the meaning of
			transport regulations	as a dangerous in the meaning U
8.	Exposure controls / personal protection			
	Additional advice on system design: Not applicable	15	Regulatory information	
	Ingredients and specific control parameters: None	10.	-	guidelines: The product does not require a
	Respiratory protection: No special protective equipment required			cordance with EC-directives/German
	Hand protection: No special protective equipment required		regulations on dangerous s	
	Eye protection: No special protective equipment required		National regulations	
	Body protection: No special protective equipment required	L		
	Other protection measures: No special protective equipment required			
	General protection and hygiene measures: Avoid prolonged and/or	16.	Other information	
		1	loove department of Cofety	Data Shoot: Chamical Desumantation
	repeated contact with skin. Remove soiled or soaked clothing im- mediately. Clean skin thoroughly after work; apply skin cream		Tel.: ++49 - 89 7876 - 564	Data Sheet: Chemical Documentation,

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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