MICROLUBE® GB 00 Fluid gear grease



Description:

MICROLUBE GB 00 is a special mineral oil based grease free from solid lubricants. It has a high pressure absorption capacity, provides excellent protection against wear and corrosion, shows good wetting behaviour, water resistance and backflow behaviour.

Application:

MICROLUBE GB 0 is suitable for the lubraction of rams in mechanical presses, heavy-duty oiltight spur and bevel gears (e.g. gear motors, small gears), worm gears with steel/ steel components as well as toothed couplings. It is also suitable for the lubrication of slideways, guides and large chain drives.

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 00 is suitable for the immersion lubrication of gears up to a peripheral speed of approx. 4 m/s. Forced-feed lubrication is possible at increased speeds.

MICROLUBE GB 00 can also be applied through centralized systems.

Service temperature range:

Approx. 0 to 100 °C in case of immersion lubrication, and approx. – 20 to 90 °C when applied through a centralized or forced-feed system.

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

Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, viscosity or apparent dynamic viscosity depending int he mechano-dynamical loads, time, pressure and temperature. These changes in the product characteristics may affect the function of a component.

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

Product data:

apacity	
s on	MICROLUBE GB 00

- Fluid gear grease
- High pressure absorption capacity
- Good wear protection
- Good anticorrosion behaviour
- No chanelling in case of immersion lubrication
- Pumpable through centralized systems
- Special FZG test A/2.76/50, scuffing load stage > 12

Colour	dark brown
Texture	homogeneous, fibred
Density, DIN 51 757, at 20 °C, g/cm ³ , approx.	0.90
Consistency grade, DIN 51 818, NLGI	00/000
Worked penetration, DIN ISO 2137; 0,1 mm	430 to 475
Base oil viscosity, DIN 51 561, mm²/s, at 40 °C, approx. at 100 °C, approx.	700 35
Apparent viscosity, KL viscosity grade*	EL

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 00 Safety Data Sheet

1.1	1 Product name: MICROLUBE GB 00 Code-No.: 020 236 08.03.2000		Physical and chemical pr Form	paste
	00.03.2000		Colour	dark brown
			Odour	characteristic
~	Klöhen Lubrisetien Mönsben KO		Drop point	none, DIN ISO 2176
.2	Klüber Lubrication München KG Emergency telephone no.:		Flash point	> 200 °C (base oil)
	Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Flammability	not applicable
	D-81379 München		-	
	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
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
			Water solubility	insoluble
			pH value	not applicable
	Hazards identification		r	
	No particular hazards known		Kinematic viscosity Further information	not applicable none
.	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	ovidizing agonts
	After contact with eyes: Rinse with plenty of water		•	
			Hazardous decomposition	products: None under normal use
	After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically		Additional information: Nor	ne
			-	
5.	Fire-fighting measures	11.	Toxicological information	n been taken from products of similar
	Suitable extinguishing media: Water spray, foam, dry powder,		composition	seen taken nem producto or similar
	carbon dioxide (CO_2)			
	Unsuitable extinguishing media: High volume water jet		Acute toxicity: LD ₅₀ /oral/rat	t = > 2 g/kg (literature data)
			Chronic toxicity: None	
	Special Hazards: In case of fire the following can be released: Carbon			ged skin contact may cause skin irritation
	monoxide, hydrocarbons			ged skin contact may cause skin initiation
	Special protective equipment for firefighters: Standard procedure for		and/or dermatitis	
	chemical fires			
	Additional information: Water mist may be used to cool closed	12	Ecological information	
	containers. In the event of fire and/or explosion do not breathe fumes			(norsistance and degradability), Draduatia
				(persistence and degradability): Product is
				separated out mechanically in purification
6.	Accidental release measures		plants	
0.			Behaviour in environmenta	I compartments: Ecological injuries are not
	Personal precautions: Not required		known or expected under r	
	Environmental precautions: Do not flush into surface water or sanitary			
	sewer system		Ecotoxic effects: Aquatic to	exicity is unlikely due to low solubility
	-		Additional information: Sho	ould 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
-	Lendling and store to		federal regulations	
7.	Handling and storage		5	
	Advice on safe handling: No special handling advice required		Dispose of contaminated p	ackaging and recommended cleaning: Offe
	Advice on protection against fire and explosion: No special precautions		rinsed packaging material	to local recycling facilities
	required			
	Requirements on storage rooms and vessels: No special storage		Transport information	
	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
			IMDG-Code:	not applicable
	Further information on storage conditions: Store at room temperature in		ICAO / IATA-DGR:	not applicable
	the original container		Further information: Not of	assified as dangerous in the meaning of
			transport regulations	accines as dangerous in the meaning of
			-r G	
0	Experience controls / personal protection			
8.	Exposure controls / personal protection			
8.	Exposure controls / personal protection Additional advice on system design: Not applicable		De mulatament d'annati	
8.		15.	Regulatory information	
8.	Additional advice on system design: Not applicable Ingredients and specific control parameters: None	15.	Labelling according to EU-	guidelines: The product does not require a
8.	Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required	15.	Labelling according to EU-	guidelines: The product does not require a cordance with EC-directives/German
8.	Additional advice on system design: Not applicable Ingredients and specific control parameters: None Respiratory protection: No special protective equipment required	15.	Labelling according to EU- hazard warning label in ac	cordance with EC-directives/German
8.	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.	Labelling according to EU- hazard warning label in ac regulations on dangerous	cordance with EC-directives/German
в.	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.	Labelling according to EU- hazard warning label in ac	cordance with EC-directives/German
В.	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.	Labelling according to EU- hazard warning label in ac regulations on dangerous	cordance with EC-directives/German
8.	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	15.	Labelling according to EU- hazard warning label in ac regulations on dangerous	cordance with EC-directives/German
8.	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		Labelling according to EU- hazard warning label in acc regulations on dangerous a National regulations	cordance with EC-directives/German
3.	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		Labelling according to EU- hazard warning label in acc regulations on dangerous a National regulations	cordance with EC-directives/German substances
3.	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		Labelling according to EU- hazard warning label in acc regulations on dangerous a National regulations	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

Klüber Lubrication München KG, a member of the Freudenberg group

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