

MICROLUBE® GL 261 / GL 262

Special lubricating greases for boundary friction conditions and tribo-corrosion



Description

MICROLUBE GL 261/GL 262 greases are special lubricating greases on a mineral hydrocarbon base. They also contain special lithium soap and the MICROLUBE additive package which ensures a wear-free surface finish. Running-in wear is reduced to a minimum. In addition, the MICROLUBE additive package provides protection in the boundary friction regime, thus preventing tribo-corrosion. MICROLUBE GL 261/GL 262 greases have the capacity to absorb high pressures, and they have good anti-corrosion properties.

Application

MICROLUBE GL 261/GL 262 greases are particularly suitable for low to medium-speed rolling bearings, and for swivel movements and vibrations.

They can be used in friction points subject to micro-sliding movements, especially in serrated teeth elements, spline shafts, sliding components and plain bearings. They are also generally suitable for all machine elements potentially subject to tribo-corrosion.

Application notes

MICROLUBE GL 261/GL 262 greases can be applied by brush, spatula, grease gun, and through centralized lubrication systems.

Storage

The storage period is approx. 3 years if the product is stored in the original closed container in a dry place.

Pack sizes

1 kg can
25 kg bucket
180 kg drum (only MICROLUBE GL 261)

MICROLUBE GL 261 / GL 262

- Greases for plain and rolling bearings
- Also for low speeds, vibrations and swivel movements
- Protection against tribo-corrosion
- Good pressure absorption capacity
- Good antiwear properties
- Good corrosion protection
- Good pumpability
- Free from solid particles

Product data

MICROLUBE	GL 261	GL 262
Colour	yellowish-brown	yellowish-brown
Service temperature range, °C, ≈	-30 – 140	-25 – 140
Drop point, DIN ISO 2176, °C	> 220	> 250
Worked penetration, DIN ISO 2137, at 25 °C; 0.1 mm	310 – 340	265 – 295
Consistency grade, DIN 51 818, NLGI	1	2
Density, DIN 51 757, at 20 °C, g/cm ³	0.89	0.89
Flow pressure, DIN 51 805, mbar	at -30 °C < 1400	at -25 °C approx. 1400
Water resistance, DIN 51 807, 3 h/90 °C, rating	1 – 90	0/1 – 90
Corrosion protection behaviour, DIN 51 802, Emcor test (1 week, dist. water), corrosion rating	1	1
Speed factor ($d_m \cdot n$), approx.	300,000	300,000

MICROLUBE® GL 261 / GL 262

Safety Data Sheet

1.1 Product name: MICROLUBE GL 261 / GL 262 Code-No. : a) 020 195 / b) 020 200	<table> <tr> <td>Drop point</td><td>a) > 220 b) > 250 [°C]</td></tr> <tr> <td>Flash point</td><td>> 200 °C</td></tr> <tr> <td>Flammability</td><td>not applicable</td></tr> <tr> <td>Ignition temperature</td><td>not applicable</td></tr> <tr> <td>Autoflammability</td><td>not applicable</td></tr> <tr> <td>Lower explosion limit</td><td>not applicable</td></tr> <tr> <td>Upper explosion limit</td><td>not applicable</td></tr> <tr> <td>Vapour pressure – first</td><td>not applicable</td></tr> <tr> <td>Density (20 °C)</td><td>≈ 0.89 g/cm³</td></tr> <tr> <td>Water solubility</td><td>insoluble</td></tr> <tr> <td>pH value</td><td>not applicable</td></tr> <tr> <td>Kinematic viscosity</td><td>not applicable</td></tr> <tr> <td>Further information</td><td>None</td></tr> </table>	Drop point	a) > 220 b) > 250 [°C]	Flash point	> 200 °C	Flammability	not applicable	Ignition temperature	not applicable	Autoflammability	not applicable	Lower explosion limit	not applicable	Upper explosion limit	not applicable	Vapour pressure – first	not applicable	Density (20 °C)	≈ 0.89 g/cm ³	Water solubility	insoluble	pH value	not applicable	Kinematic viscosity	not applicable	Further information	None
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Klüber Lubrication München KG, Geisenhausenerstr. 7 D-81379 Munich; Tel. (089) 7876-0, Fax (089) 7876-333 Emergency no.: (089) 7876-0	10. Stability and reactivity Conditions to avoid: None Materials to avoid: Strong oxidizing agents Hazardous decomposition products: None under normal use. Additional information: None																										
2. Composition/information on ingredients Chemical characterization: Mineral oil, special lithium soap Additional information: No hazardous ingredients	11. Toxicological information The toxicological data have been taken from products of similar composition. Acute toxicity: LD ₅₀ oral/rat = > 2g/kg (literature data) Chronic toxicity: None Human experience: Prolonged skin contact may cause skin irritation and/or dermatitis.																										
3. Hazards identification No particular hazards known.	12. Ecological information Information on elimination: The products are insoluble in water. Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use. Ecotoxic effects: The products have not been tested. Additional information: Should not be released into the environment.																										
4. First aid measures Contact with skin: Wash off with soap and plenty of water. Contact with eyes: Rinse with plenty of water. Ingestion: Do not induce vomiting. Obtain medical attention. Advice to doctor: Treat symptomatically.	13. Advice on disposal Can be incinerated when in compliance with local, state and federal regulations. Dispose of contaminated packaging and recommended cleaning: Offer rinsed packaging material to local recycling facilities.																										
5. Fire-fighting measures Suitable extinguishing media: Water spray, foam, dry powder, CO ₂ Unsuitable extinguishing media: High volume water jet Special hazards: In case of fire can be released: CO, hydrocarbons Special protecting equipment: Standard procedure for chemical fires. Additional information: Cool closed containers with water. Do not breathe fumes.	14. Transport information GGVS / GGVE: not applicable ADN / ADNR: not applicable IMDG / GGVsee: not applicable ICAO / IATA: not applicable Further information: Not classified as dangerous in the meaning of transport regulations.																										
6. Accidental release measures Personal precautions: Not required. Environmental precautions: Do not flush into surface water or sanitary sewer system. Methods for cleaning up/taking up: Use mechanical handling equipment. Dispose of absorbed material in acc. with the regulations. Additional information: None	15. Regulatory information Labelling: The products do not require a hazard warning label in acc. with EC directives/German regulations on dangerous substances.																										
7. Handling and storage Safe handling: No special handling advice required. Protection against fire and explosion: No special precautions required. Requirements on storage rooms and vessels: — Incompatible materials: Oxidizing agents; do not store together with food. Further information: Store at room temperature in the original container.	16. Other information None																										
8. Exposure controls / personal protection Additional advice on system design: Not applicable Ingredients and specific control parameters: None Personal protective equipment Respiratory/hand/eye/body protection: No special protective equipment required. 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.																											
9. Physical and chemical properties <table> <tr> <td>Form</td><td>paste</td></tr> <tr> <td>Colour</td><td>tan</td></tr> <tr> <td>Odour</td><td>characteristic</td></tr> </table>	Form	paste	Colour	tan	Odour	characteristic																					
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The data in this brochure 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 without, however, constituting an assurance of properties for specific cases. We recommend contacting our Technical Consulting Staff for information regarding specific applications. If required and possible we will be pleased to provide a sample for testing.



Klüber Lubrication, a member of the Freudenberg Group