

POLYLUB WH 2

Multi-purpose food-grade grease



Description

POLYLUB WH 2 is a mineral oil lithium soap based lubricating grease for general purpose food industry use.

The grease offers good adhesion, excellent low-temperature properties and good corrosion protection.

Application

POLYLUB WH 2 is recommended for lubrication of all application points in the food processing and related industries where contact with the food product is excluded.

POLYLUB WH 2 has a USDA H2 classification.

This multi-purpose grease has been designed for the lubrication of rolling and plain bearings, slideways, cylinder guides, rollers, cams, gears, racks, filling and capping machines, washing machines, conveyors, wine presses as well as for tubular tracks and hooks in slaughter-houses.

Application notes

POLYLUB WH 2 may be applied by means of brush, spatula or grease gun.

The product can also be used via centralized lubrication systems.

Minimum shelf life

The minimum shelf life is approximately 60 months if the product is stored in its original closed container in a dry place.

Pack sizes

400	g	grease cartridge
1	kg	can
25	kg	bucket
180	kg	drum

POLYLUB WH 2

- USDA H 2 authorised
- Good adhesion properties
- Excellent low-temperature behaviour
- Good water resistance
- Good corrosion protection
- Can be applied via centralised lubrication systems

Product data

Colour	whitish
Texture	homogeneous
Density, at 20°C, g/cm ³ , approx.	0.93
Drop point, DIN ISO 2176, °C	> 190
Worked penetration at 25 °C, DIN ISO 2137, 0.1 mm	265 to 295
Service temperature range, °C *	- 40 to 120
Apparent dynamic viscosity, Klüber viscosity class**	L/ M
Base oil viscosity, DIN 51562, pt.1 at 40°C, mm ² /s, approx. at 100°C, mm ² /s, approx.	225 16
Speed factor***, mm x min ⁻¹	300,000
Flow pressure, DIN 51 805, at – 40 °C, mbar	< 1400
Water resistance, DIN 51807, pt.1, 3 h/ 90 °C	1 – 90
Corrosion protection, DIN 51802, Emcor test (1 week, distilled water)	0 / 1

* 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 mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** 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

*** 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.

POLYLUB WH 2

Safety Data Sheet

1.1 Product name: POLYLUB WH 2 Code-No.: 096 023 03.07.2002	9. Physical and chemical properties Form paste Colour off-white Odour characteristic Drop point > 190 °C, DIN ISO 2176 Flash point > 200 °C (base oil) Ignition temperature not applicable Lower explosion limit not applicable Upper explosion limit not applicable Vapour pressure-first not applicable Density approx. 0.93 g/cm ³ , 20 °C Water solubility insoluble pH value not applicable Kinematic viscosity not applicable Further information none
1.2 Klüber Lubrication München KG Geisenhausenerstraße 7 81379 München, Germany ☎ +49 89 7876-0 telephone exchange Telefax +49 89 7876-333 Emergency telephone no.: +49 89 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 (preparation): Mineral oil, lithium soap	11. Toxicological information The toxicological data has been taken from products of similar composition Acute toxicity: LD ₅₀ /oral/rat = > 2 g/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 (persistence and degradability): Product is insoluble in water. May be separated out mechanically in purification plants Behaviour in environmental compartments: Ecological injuries are not known or expected under normal use Ecotoxic effects: Aquatic toxicity is unlikely due to low solubility Additional information: Should not be released into the environment
4. First aid measures After inhalation: Not applicable After contact with skin: Wash off with soap and plenty of water After contact with eyes: Rinse with plenty of water After ingestion: Do not induce vomiting. Obtain medical attention Advice to doctor: Treat symptomatically	13. Advice on Disposal Code of waste: 120 112. Wastes from shaping and surface treatment of metals and plastics; wastes from shaping (including forging, welding, pressing, drawing, turning, cutting and filling); spent waxes and fats Disposal: The code of waste has to correspond to the Council Directive 75/442/EEC and be specific as far as the related sector and process are concerned. 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, carbon dioxide (CO ₂) Unsuitable extinguishing media: High volume water jet Special Hazards: In case of fire the following can be released: Carbon monoxide, hydrocarbons Special protective equipment for firefighters: Standard procedure for 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	14. Transport information GGVS / GGVE: not applicable ADN / ADN: not applicable IMDG-Code: not applicable ICAO / IATA-DGR: 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 accordance with the regulations Additional information: None	15. Regulatory information Labelling according to EU-guidelines: The product does not require a hazard warning label in accordance with EC-directives/German regulations on dangerous substances National regulations
7. Handling and storage Advice on safe handling: No special handling advice required Advice on protection against fire and explosion: No special precautions required Requirements on storage rooms and vessels: Store at room temperature in the original container Incompatible materials: Incompatible with oxidizing agents. Do not store together with food Further information on storage conditions: None	16. Other information Issue-department of Safety Data Sheet: Chemical Documentation, ☎ +49 89 7876-564
8. 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 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	

The data in this product information 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. 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.



Klüber Lubrication München KG, a member of the Freudenberg group