UNISILKON L 250 L

Special lubricating grease for drinking water, beverage and heating valves and fittings

Your benefits at a glance

- Proven effective in valves and fittings as well as adjusting mechanisms in the drinking water, beverage, sanitary and heating sectors
- Certified acc. to international standards for valves and fittings, e.g. KTW-BWGL, WRAS, ACS, AS 4020, NSF Standard 61 and NSF H1
- Long-term protection of seals and bearings owing to the lubricant's good resistance to numerous media like disinfectants, cleaning agents, water, steam

Your requirements - our solution

UNISILKON L 250 L is a special lubricant based on silicone oil and PTFE with high thermal stability. UNISILKON L 250 L offers good penetration ability in small lubrication gaps and lube points of difficult access. Owing to its relatively high viscosity, adhesion is improved even in case of unfavourable geometries. UNISILKON L 250 L is resistant to cold and hot water, superheated steam up to approx. 130 °C as well as industrial cleaning agents and disinfectants. UNISILKON L 20 L is also resistant to pumpable foodstuffs and beverages like fruit juices, beer or milk products. UNISILKON L 250 L is not resistant to organic solvents or strong acid and alkaline solutions.

UNISILKON L 250 L is NSF H1 registered and therefore complies with FDA 21 CFR § 178.3570. The lubricant was developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of UNISILKON L 250 L can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

UNISILKON L 250 L is used as lubricating and sealing grease for

- domestic valves & fittings for drinking water, (e.g. ceramic discs and piston cartouches, thermo regulators). As the lubricant's viscosity is rather independent of service temperatures, UNISILKON L 250 L allows constant actuating forces within the whole cold/hot water range of e.g. single-lever mixer taps.
- valves and fittings of heating installations (e.g. thermoregulators, tap cocks, pressfit seals)

UNISILKON L 250 L has also proven effective as assembly aid for radial shaft seals and packings in contact with cold or hot water and steam.

Application notes

UNISILKON L 250 L is neutral towards most metals, thermoplastics and elastomers. Owing to the many different elastomer and plastic compositions their compatibility should be checked prior to series applications. UNISILKON L 250 L can be applied by means of spatula, brush, usual metering devices or the tampon printing method. Please observe the material safety data sheet.

For more details on MOSH/MOAH and their assessment in H1 lubricants, please visit our website or contact your Klüber representative.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	UNISILKON L 250 L
Cartrigde 500 g	+
Can 750 g	+
Bucket 30 kg	+

a brand of FREUDENBERG

UNISILKON L 250 L

Special lubricating grease for drinking water, beverage and heating valves and fittings

Pack sizes	UNISILKON L 250 L
Drum 180 kg	+

Characteristics	UNISILKON L 250 L
Article number	022102
Composition, solid lubricant	PTFE
Composition, type of oil	methyl silicone oil
Colour space	white
Texture	fibrous , homogeneous
Service temperature, lower limit	-45 °C
Service temperature, upper limit	160 °C
NSF H1 registration number	141714
Density, Klüber method: PN 024, 20°C	approx. 1.25 g/cm³
NLGI grade, DIN 51818	3
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, lower limit	220 0.1 mm
Worked penetration, DIN ISO 2137 / ASTM D217, 25°C, upper limit	250 0.1 mm
Shear viscosity, Klüber method: PN 008@DIN 53019-1, equipment: rotational viscometer, 25°C, 300 s^{-1}	approx. 13000 mPas
Kinematic viscosity of the base oil, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 25°C	approx. 1350 mm²/s
Copper corrosion, DIN 51811, 24 h, 100°C	1 - 100 - 24 corrosion degree
Water resistance, DIN 51807-1, 3 h, 90°C	≤ 1 - 90 rating
Mineral Oils associated with MOSH (Mineral Oil Saturated Hydrocarbons) / MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.)	No component of recipe
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

UNISILKON L 250 L

Special lubricating grease for drinking water, beverage and heating valves and fittings

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 95 years.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication 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 field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München GmbH & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München GmbH & Co. KG and if source is indicated and voucher copy is forwarded.