

# UNISILKON L 250 L

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



## Benefits for your application

- 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. DVGW-KTW, 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

## Description

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.

## Material safety data sheets

Material safety data sheets can be requested via our website [www.klueber.com](http://www.klueber.com). You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	UNISILKON L 250 L
Tube 60 g	+
Cartridge 500 g	+
Can 750 g	+
Bucket 30 kg	+



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Product data	UNISILKON L 250 L
Article number	022102
NLGI grade, DIN 51818	3
NSF-H1 registration	141 714
Chemical composition, type of oil	methyl silicone oil
Chemical composition, solid lubricant	PTFE
Lower service temperature	-45 °C / -49 °F
Upper service temperature	160 °C / 320 °F
Colour space	white
Texture	fibrous
Texture	homogeneous
Density at 20 °C	approx. 1.25 g/cm <sup>3</sup>
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	220 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	250 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s <sup>-1</sup> , equipment:rotational viscometer	approx. 13 000 mPas
Kinematic viscosity of the base oil, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 25 °C	approx. 1 350 mm <sup>2</sup> /s
Copper corrosion, DIN 51811, (lubricating grease), 24h/100°C	1 - 100 corrosion degree
Water resistance, DIN 51807 pt. 01, 3 h/90 °C, rating	<= 1 - 90
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

## 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 80 years.

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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.

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