

UNISILKON L 643

Sealing and dampening grease valves and fittings



Benefits for your application

- Excellent wetting power
- Operational smoothness due to a good viscosity-temperature behaviour
- Excellent resistant to hot and cold water, steam
- High thermal stability
- Good sealing effect
- Neutral towards metals, elastomers and plastics

Description

UNISILKON L 643 is a special lubricating grease based on silicone oil and PTFE for valves and other elements in the sanitary and heating sector. It offers good penetration ability in small lubrication gaps and lube points of difficult access. As its viscosity is rather independent from service temperatures, UNISILKON L 643 allows constant actuating forces within the whole cold/hot water range of single-lever mixer taps. The grease is resistant to many aqueous solutions as well as acid and alkaline disinfectants. It is not compatible with most organic solvents, strong acid and alkaline solutions.

Application

UNISILKON L 643 is used as sealing grease and assembly aid for seals and packings in contact with cold and hot water as well as steam. It is suitable for industrial installations, e.g. ball valves, heating and thermostat valves, tap cocks and press fit seals, in hydraulics as sealing grease for radial shaft seals, thermo regulators and elements of mixing taps.

Application notes

UNISILKON L 643 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 643 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. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	UNISILKON L 643
Can 750 g	+
Bucket 30 kg	+

Product data	UNISILKON L 643
Article number	022107
Chemical composition, solid lubricant	PTFE
Chemical composition, type of oil	silicone oil
Lower service temperature	-40 °C / -40 °F
Upper service temperature	160 °C / 320 °F
Colour space	white
Texture	homogeneous



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Product data	UNISILKON L 643
Texture	long-fibred
Density at 20 °C	approx. 1.28 g/cm ³
Worked penetration, DIN ISO 2137, 25 °C, lower limit value	200 x 0.1 mm
Worked penetration, DIN ISO 2137, 25 °C, upper limit value	240 x 0.1 mm
Shear viscosity at 25 °C, shear rate 300 s ⁻¹ ; equipment:rotational viscometer	>= 20 000 mPas
Drop point, DIN ISO 2176	> 250 °C
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.	60 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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