UNISILKON L 250 L
Special lubricating grease for tap water, beverage and heating valves & fittings

Description
UNISILKON L 250 L is a special lubricant based on silicone and PTFE for valves and adjusting mechanisms in the sanitary, beverage and heating sector.
UNISILKON L 250 L 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 250 L allows constant actuating forces within the whole cold/hot water range of single-lever mixer taps.
UNISILKON L 250 L is resistant to cold and hot water, hot steam up to approx. 120/130°C. It is compatible with most substances in the food-processing and beverage industries like beer, milk, juices, liquors, aqueous liquids as well as with acid and alkaline disinfectants.
UNISILKON L 250 L is not resistant to most organic solvents, strong acid and alkaline solutions.
UNISILKON L 250 L is also used as sealing grease and assembly aid for seals and packings in contact with cold water or hot steam.
The product shows a thermal stability up to approx. 160°C and low evaporation loss.
UNISILKON L 250 L complies with the guidelines of the German Federal Environmental Agency on hygiene requirements for lubricants in contact with tap water (as of April 15; 2003).

Application
Tap water:
Ceramic disc valves
Single-lever mixer taps:
Ceramic discs and piston cartouches.
Mixer taps with two handles:
Swivel spouts, shower switches, shower heads etc.
Thermostatic mixer taps:
Thermo regulators, thermo elements etc.
Heating installations
Valves, thermostats, pressfit seals

Application notes
UNISILKON L 250 L is neutral towards metals, thermoplastics (e.g. ABS, PC ...) and elastomers (e.g. EPDM, NBR ...).
Prior to series application we recommend checking compatibility with elastomers under conditions similar to actual use, on the complete component.

UNISILKON L 250 L can be applied by means of all customary application devices and the tampo print method. Please observe material safety data sheet.

Minimum shelf life
The minimum shelf life is approx. 36 months if the product is stored in its unopened original container in a dry, frost-free place.

Pack sizes
60 g tube
500 g cartridge
750 g cans
30 kg bucket

The product is certified by:
- Engler Bunte Institute of the University of Karlsruhe, Germany (DVGW-KTW)
- Research Center, Great Britain (WRC)
- NSF 51 and 61 (USA)
- AS4020 (Australia)
- ACS (France)
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### Product data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Base oil</td>
<td>methyl silicone oil</td>
</tr>
<tr>
<td>Thickener</td>
<td>PTFE</td>
</tr>
<tr>
<td>Service temperature range [°C], approx. *</td>
<td>-45 to 160</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Density, DIN 51757 (bei 20°C) [g/cm³], approx.</td>
<td>1.3</td>
</tr>
<tr>
<td>Consistency class, NLGI, DIN 51818</td>
<td>3</td>
</tr>
<tr>
<td>Kinematic viscosity of the base oil, DIN 51562 pt. 01, 25°C, [mm²/s], approx.</td>
<td>1350</td>
</tr>
<tr>
<td>Copper corrosion, DIN 51811, 244h/100°C, corrosion degree</td>
<td>1-100</td>
</tr>
<tr>
<td>Drop point, DIN ISO 2176, [°C]</td>
<td>≥ 230</td>
</tr>
<tr>
<td>Water resistance, DIN 51807 pt. 01, 3h/90°C, rating</td>
<td>≤ 1 - 90</td>
</tr>
</tbody>
</table>

*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.*