

UNISILKON TK 002

Silicone oils



Benefits for your application

- Good low-temperature behaviour due to the low pour point
- High thermal stability
- Neutral towards many plastics and elastomers

Description

UNISILKON TK 002 are transparent, clear fluids based on methyl silicone. These oils offer good stability at low and high temperatures.

UNISILKON TK 002/500, UNISILKON TK 002/1000 are NSF H1 registered and therefore comply with FDA 21 CFR § 178.3570. The lubricants were developed for incidental contact with products and packaging materials in the food-processing, cosmetics, pharmaceutical or animal feed industries. The use of UNISILKON TK 002/500, UNISILKON TK 002/1000 can contribute to increase reliability of your production processes. We nevertheless recommend conducting an additional risk analysis, e.g. HACCP.

Application

Release agent:

- For rubber and plastic
- For sealing and welding equipment in packaging and plastics processing machines
- Prevents welding beads in shielded arc welding

Protective agent:

- For rubber and elastomer parts, e.g. mats and profiles

Sliding agent:

- For rubber and synthetic materials, chutes and slideways in packaging and vending machines.

Lubricant:

- For plastic and metal composite bearings and gears.

Fluid for hydraulic controls

Dampening and expansion oil

Application notes

UNISILKON TK 002 oils can be applied by brush, oil can or drip oiler.

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 TK 002/ 20	UNISILKON TK 002/ 100	UNISILKON TK 002/ 500	UNISILKON TK 002/1000
Canister 1 l	+	+	+	+
Canister 20 l	-	+	+	+

Product data	UNISILKON TK 002/ 20	UNISILKON TK 002/ 100	UNISILKON TK 002/ 500	UNISILKON TK 002/1000
Article number	024001	024003	024004	024005
NSF-H1 registration			113 764	142 117
Chemical composition, type of oil	methyl silicone oil	methyl silicone oil	methyl silicone oil	methyl silicone oil
Lower service temperature	-60 °C / -76 °F	-50 °C / -58 °F	-50 °C / -58 °F	-45 °C / -49 °F



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Product data	UNISILKON TK 002/ 20	UNISILKON TK 002/ 100	UNISILKON TK 002/ 500	UNISILKON TK 002/1000
Upper service temperature	120 °C / 248 °F	150 °C / 302 °F	150 °C / 302 °F	150 °C / 302 °F
Appearance	clear	clear	clear	clear
Colour space	colourless	colourless	colourless	colourless
Density, DIN 51757, 20 °C	approx. 0.95 g/cm ³	approx. 0.97 g/cm ³	approx. 0.97 g/cm ³	approx. 0.97 g/cm ³
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ ASTM D 7042, 25 °C	approx. 20 mm ² /s	approx. 100 mm ² /s	approx. 500 mm ² /s	approx. 1 350 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ ASTM D 7042, 40 °C	approx. 15 mm ² /s	approx. 75 mm ² /s	approx. 400 mm ² /s	approx. 1 000 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ ASTM D 7042, 100 °C	approx. 7 mm ² /s	approx. 29 mm ² /s	approx. 165 mm ² /s	approx. 390 mm ² /s
Viscosity index, DIN ISO 2909	approx. 400	approx. 400	approx. 400	approx. 400
Pour point, DIN ISO 3016	approx. -60 °C	approx. -50 °C	approx. -50 °C	approx. -45 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months	60 months	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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