

UNISILKON TK 055

Synthetic impregnating oil for sintered metal plain bearings



Your benefits at a glance

- Enables energy savings due to improved efficiency and low friction torque
- Longer service life due to good oxidation stability
- Wide range of component applications due to good viscosity-temperature behaviour
- Synthetic long-term impregnating oil enabling reduced maintenance and for-life lubrication

Your requirements - our solution

UNISILKON TK 055 is a phenylmethyl silicone oil for the lubrication of sintered metal plain bearings at both high and low temperature. Due to its extraordinary formulation including matching additives, UNISILKON TK 055 can be used in a wide temperature range. With its superior viscosity-temperature behaviour, UNISILKON TK 055 is the obvious choice for the lifetime lubrication of sintered metal plain bearings subject to strong temperature fluctuations.

Application

UNISILKON TK 055 is intended for application in sintered metal plain bearings used in precision engineering, electrical engineering or household appliances.

Application notes

The pores of sintered metal plain bearings are filled with UNISILKON TK 055 by means of vacuum immersion. For a longer service life, the ready-to-use product MIKROZELLA GTK 055 can be applied to the outer surface of the bearing by means of conventional, fully automatic lubricating systems. We recommend conducting a test with the original lubricating system under practical operating conditions.

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 055
Canister 1 l	+
Canister 20 l	+

Product data	UNISILKON TK 055
Article number	024006
Chemical composition, type of oil	phenylmethyl silicone oil
Lower service temperature	-50 °C / -58 °F
Upper service temperature	220 °C / 428 °F
Colour space	colourless
Appearance	clear
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 40 °C	approx. 130 mm ² /s
Kinematic viscosity, DIN 51562 pt. 01/ASTM D-445/ASTM D 7042, 100 °C	approx. 52 mm ² /s
Viscosity index, DIN ISO 2909	>= 300
Pour point, DIN ISO 3016	<= -55 °C
Refraction index, DIN 51423 pt. 02, at 20 °C	approx. 1.428
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	24 months



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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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