

KORASILON® ÖI MKI 50

Short description

KORASILON® ÖI MKI 50 is a special liquid Polydimethylsiloxane for the use as coolant and insulating fluid in transformers and capacitors

Product properties

KORASILON® ÖI MKI 50 is a pure, non-volatile and non-corrosive silicone-oil, which was developed especially for transformers and other electrical installations. By its special polymer structure and its high flash point of more than 240 °C. **KORASILON® ÖI MKI 50** is a hardly inflammable liquid. A silicone dioxide layer is formed on the liquid in case of fire surface thus providing a self extinguishing effect.

KORASILON® ÖI MKI 50 exhibits excellent heat and ageing stability and being more durable and less sensitive to oxidation than comparable mineral fluids. Additionally, **KORASILON® ÖI MKI 50** is free of aromatics, amines or fluorine containing additives.

The special properties of **KORASILON® ÖI MKI 50** are:

- Not hazardous to the environment
- Maximum purity
- Non corrosive
- High flash point
- Very high combustion point
- Excellent thermal durability and oxidation stability
- Good electrical properties and usability over a wide temperature range
- Long term stable dielectrical properties
- Excellent low temperature performance

KORASILON® ÖI MKI 50 shows very good compatibility with a wide range of different materials. Only silicone elastomer may swell in contact with this fluid or may exhibit softening.

Technical data*

Appearance	clear liquid
Refractive index at 25 °C	approx. 1.404
Viscosity at 25 °C 50 mm ² /s	approx. 50
Density at 25 °C in g/cm ³	approx. 0.96
Flash point in °C	> 240
Combustion point in °C	> 340
Pour point in °C	approx. -55
Water content in ppm	< 50
Thermal expansion coefficient from 20 °C to 100 °C in K ⁻¹	approx. 0.0010
Thermal conductivity at 50 °C in W K ⁻¹ m ⁻¹	0.14
Specific heat between 20 °C and 150 °C in Jg ⁻¹ K ⁻¹	1.55
Breakdown voltage in kV	> 40
Volume resistivity at 90 °C in Ω cm	> 10 ¹³
Dielectric loss factor at 90 °C/50Hz	< 0.001
Dielectric constant at 90 °C/50Hz	approx. 2.6

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Storage

KORASILON® ÖI MKI 50 has a shelf life of **24** months after date of manufacturing when correctly stored in its original unopened container at storage temperatures between **+5 °C** and **+40 °C**.

Storage beyond to the period indicated on the product label does not automatically mean that the product is unusable. However, an inspection of the property values necessary for the intended use is essential due to quality assurance reasons.

Miscellaneous

Additionally we offer specialized silicone greases for the use as assembly aid, isolation material or heat transfer media. Information material is available by request.

Further information on product safety and handling is given in the Material Safety Data Sheet.

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery; this is not valid for our trial products.

*Informative properties not intended to be used as product specification

Kurt Obermeier GmbH & Co. KG, Berghäuser Str. 70, D-57319 Bad Berleburg
Tel.: +49 (0) 2751/524-0, Fax.: +49 (0) 2751/5041, email: info@obermeier.de / www.obermeier.de