KORASILON® Fluids HT and HT-A

Short description

KORASILON® Fluids HT

Linear Polydimethylsiloxanes mixed with a stabilizer, available in different viscosities for the use as heat transfer media in open systems and temperatures up to 300 °C

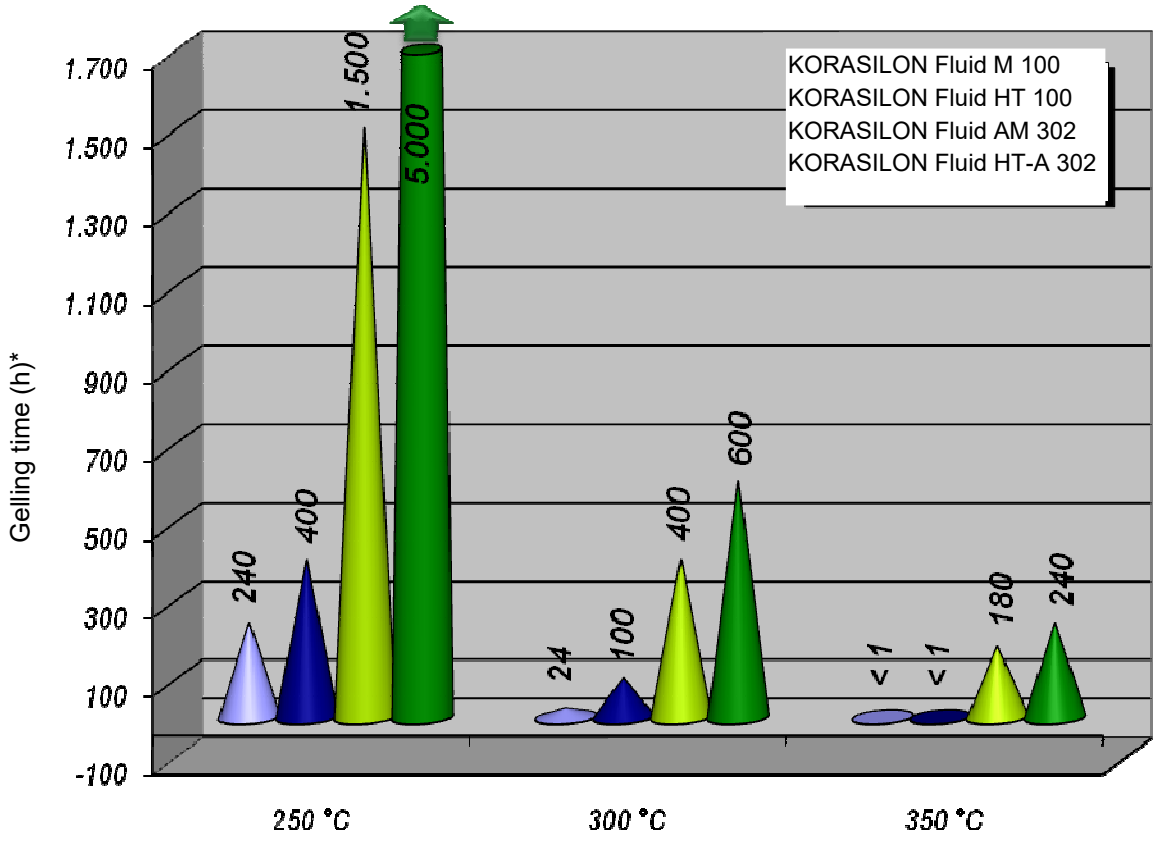
KORASILON® Fluids HT-A

Linear Polydimethylphenylsiloxanes mixed with a stabilizer, available in different viscosities for the use as heat transfer media in open systems and temperatures up to 350 °C or for the long term use at lower temperatures.

Product properties

The **KORASILON® Fluids HT and HT-A** with their characteristic yellow-brown color have been developed for the use as heat transfer media in open system, such as tempering baths.

The admixing of a special stabilizer results in a longer duration of use in open systems at elevated temperatures, which can be seen in the figure below.



KORASILON® Fluids HT and HT-A

Application

During the first use of **KORASILON® Fluids HT and HT-A** a smoke development can occur, which has no effect on the product quality. The smoke development will cease after repeated use at elevated temperatures. We recommend the use of open systems only in hoods or to install ventilation facilities in order to avoid odor nuisance.

The products typically show a certain clouding, which cannot be avoided. The clouding may get more intense during the use of the fluids.

The period of use at elevated temperatures is prolonged by using stabilizer. However, the gelling will only be postponed and cannot be avoided completely. Therefore we recommend regular checks of the viscosity. We offer measurements of the viscosity on request. The product should no longer be used if the viscosity increases to a certain value. The installation could be damaged otherwise. A reprocessing of the products is not possible due to chemical reactions.

Besides measurements of the viscosity **KORASILON® Fluids HT** can also be checked by applying a thermal stress test. In order to do so, weigh 50 g of the product in a 150 mL beaker (tall-form prefered) and place it for max. 72 h at 300 °C in a fan oven. The consistence of the fluid should be checked every 24 h by gently stirring with a glass rod. An early gelling or thickening indicates a limited usability and therefore the fluid should be replaced.

KORASILON® Fluids HT-A are checked generally in the same way but the tests should last for max. 7 days (168 h) due to the improved thermal stability of these fluids.

Product data*

KORASILON® Fluids HT

The addition of the stabilizer does not influence the key basic data of the **KORASILON®** base fluid. Therefore the data of the **KORASILON® Fluids HT** – with exception of the dielectricity constant – are similar to **KORASILON® Fluids M**. The pour points are slightly higher.

In general, all **KORASILON® Fluids M** are available as **KORASILON® Fluids HT**. Please contact our sales team if interested.

Product data*

KORASILON® Fluids HT-A

Also the addition of the stabilizer does not influence the key basic data of the **KORASILON®** base fluid of the **KORASILON® Fluids HT-A**. Therefore the data of the **KORASILON® Fluids HT-A** – with exception of the dielectricity constant – are similar to **KORASILON® Fluids AM**. The pour points are slightly higher.

In general, all **KORASILON® Fluids AM** are available as **KORASILON® Fluids HT-A** on request. Please contact our sales team if interested.

KORASILON® Fluids HT and HT-A

Storage

Correctly stored in its original unopened container at storage temperatures between **5** °C and **+40** °C **KORASILON Fluids HT and HT-A** have a shelf life of **24** month after date of manufacturing.

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 is necessary for the intended use and essential for quality assurance reasons.

Miscellaneous

Please note our product information of "cold- and heat-transfer" as well as the special fluids for use as a heat transfer medium at low temperatures, which are available on request.

Apart from a large range of standard products for use as heat transfer media, we also offer customized solutions on request. If interested, please contact our sales staff.

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

*Informative properties not intended to be used as product specification

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