



## Technical data

### General Characteristics

Property	Condition	Value	Method
Appearance and color	-	colorless, clear	-
Viscosity, kinematic	25 °C	33 - 38 mm <sup>2</sup> /s	DIN 51562
Acid number	-	< 0.005 mg KOH/g	-
Boiling point	1013 hPa	> 380 °C	EU-GL.A.2
Chemical characterization	-	Polydimethylsiloxane	-
Color	-	colorless	-
Density	-	approx. 0.95 g/cm <sup>3</sup>	DIN 51757
Flash point	-	222 °C	Pensky-Marten
Ignition temperature	-	376 °C	EN 14522
Odor	-	odorless	-
Solubility	-	virtually insoluble	-
Thermal conductivity	25 °C	0.1516 W/(m·K)	-
Vapour pressure	not determinable	-	-

These figures are only intended as a guide and should not be used in preparing specifications.

## After Extended Use

Property	Value	Method
Appearance	clear	-
Viscosity, kinematic	approx. 12 mm <sup>2</sup> /s	DIN 53019
Color	colorless to dark brown	-
Density	approx. 0.95 g/cm <sup>3</sup>	DIN 51757
Flash point	69 °C	Pensky-Marten
Ignition temperature	366 °C	EN 14522
Odor	musty	-
Solubility	virtually insoluble	-
Thermal conductivity	0.1352 W/(m·K)	-

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

## Applications

- Renewable Energies

## Application details

- heat transfer fluid in closed systems under inert conditions from -40 °C up to 425 °C.
- recommended use in liquid phase
- maximum permitted working temperature: 425 °C
- maximum permitted film temperature: 450 °C

## Packaging and storage

### Packaging

- 0.5 kg bottle
- 5 kg can
- 25 kg drum
- 200 kg drum
- 950 kg IBC

### Storage

Maximum temperature allowed during storage and transportation: 50 °C

A temporary increase in temperature during transport does not impair quality. Actively cooled transport guide can be dispensed with.

The 'Best use before end' date of each batch is shown on the product label.  
Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety notes

### **Reactivity; Chemical stability; Possibility of hazardous reactions**

No hazardous reactions known if properly stored.

When it is used as intended (up to 425 °C), amounts (< 25%) of a mixture of D-cyclic siloxanes (including octamethylcyclotetrasiloxane (D4, CAS 556-67-2) and decamethylcyclopentasiloxane (D5, CAS 541-02-6)) are formed. This depresses the flash point and increases the vapor pressure.

### **Conditions to avoid**

Permeation of oxygen and water or any contamination at operating temperature.

### **Incompatible materials**

None known.

### **Hazardous decomposition products**

When it is used as intended (up to 425 °C), it has been found that in the absence of oxygen and after relatively long operating times, extremely small quantities of methane, hydrogen and volatile silanes (tetramethylsilane, CAS 75-76-3 and trimethylsilane, CAS 993-07-7) may be produced, which further depress the flash point.

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## QR Code HELISOL® XLP



### **For technical, quality or product safety questions, please contact:**

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