

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance and color	-	colorless, clear	-
Viscosity, kinematic	25 °C	4 - 6 mm ² /s	DIN 51562
Water content	-	< 130 ppm	DIN 51777
Boiling point	-	215 °C	EG-Method A.2
Density	25 °C	approx. 0.92 g/cm ³	DIN 51757
Flash point	-	120 °C	Pensky-Marten
Heat of combustion	-	26.3 MJ/kg	DIN 51900
Ignition temperature	-	359 °C	EN 14522
Odor	-	odorless	-
Pour point	-	< -55 °C	DIN ISO 3016
Solubility in water	-	virtually insoluble	-

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

After Extended Use

Property	Value	Method
Appearance and color	colorless to dark-brown, clear	-
Viscosity, kinematic	2 - 4 mm ² /s	DIN 51562
Water content	< 130 ppm	DIN 51777
Boiling point	215 °C	EG-Method A.2
Density	approx. 0.92 g/cm ³	DIN 51757
Flash point	51 °C	DIN EN ISO 3679
Heat of combustion	26.3 MJ/kg	DIN 51900
Ignition temperature	358 °C	EN 14522
Odor	musty	-
Pour point	< -55 °C	DIN ISO 3016
Solubility in water	virtually insoluble	-

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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.

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

- 0.4 kg bottle
- 25 kg canister
- 180 kg drum
- 900 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), decamethylcyclopentasiloxane (D5, CAS 541-02-6) and dodecamethylcyclohexasiloxane (D6, CAS 540-97-6) are formed. This depresses the flash point and increases the vapor pressure.

When the fluid is used as intended, at temperatures below 230 °C and without any chemical contamination, it will retain its classification-free status.

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.

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

Detailed information can be found in the respective safety data sheets.

QR Code HELISOL® i5



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

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