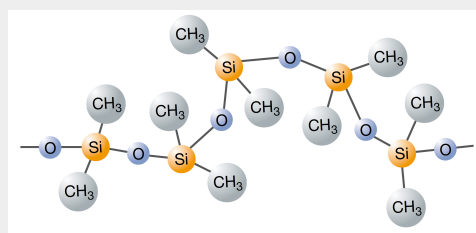


# HELISOL<sup>®</sup> i35

## Linear Silicone Fluids

HELISOL<sup>®</sup> i35 is a linear, non-reactive polydimethylsiloxane with a viscosity of approx. 35 mm<sup>2</sup>/s.

Due to its chemical structure, HELISOL<sup>®</sup> i35 has an outstanding property profile as heat transfer fluid, which sets it apart from organic materials such as mineral oils.



## Properties

HELISOL<sup>®</sup> i35 is a clear, odor- and colorless liquid.

- high heat resistance
- low pourpoint
- low viscosity at low temperatures
- lower density than water
- long life
- low fouling potential
- non-corrosive
- no hazard classification

## Specific features

- Fluid
- Good heat stability
- Heat resistant
- Silicone Fluid
- Stable upon heating

## 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
Water content	-	< 130 ppm	DIN 51777
Density	25 °C	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 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	approx. 12 mm <sup>2</sup> /s	DIN 51562
Water content	< 130 ppm	DIN 51777
Density	approx. 0.95 g/cm <sup>3</sup>	DIN 51757
Flash point	69 °C	Pensky-Marten
Ignition temperature	376 °C	EN 14522
Odor	musty	-
Solubility in water	virtually insoluble	-

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

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.

## Packaging and storage

### Packaging

- 0.5 kg bottle
- 25 kg canister
- 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), 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® i35



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

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