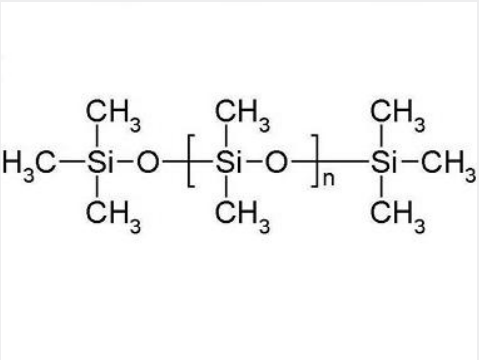
WACKER® AK 10

Linear Silicone Fluids

WACKER® AK 10 is a linear, non-reactive polydimethylsiloxane with a viscosity of approx. 10 mm^2/s.
Due to its chemical structure, WACKER® AK 10 has an outstanding property profile, which sets it apart from organic materials such as mineral oils.



Properties

WACKER® AK 10 is a clear, odorless and colorless liquid.

- minimal change in physical properties over a broad temperature range
- excellent water-repellent properties
- good dielectric properties
- low surface tension and thus high surface activity
- chemically highly unreactive
- low solidifying point
- high heat resistance
- good solubility in a wide range of solvents

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	colorless, clear	-
Density	25 °C	approx. 0.93 g/cm^3	DIN 51757
Flash point	-	180 °C	ISO 2592
Ignition temperature	-	365 °C	EN 14522
Refractive index	25 °C	approx. 1.399	DIN 51423
Surface tension	25 °C	approx. 0.020 N/m	-
Viscosity, kinematic	25 °C	approx. 10 mm^2/s	DIN 53019

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.

Applications

- Shoe & Leather Polishes
- Water-repellent Agents for Glass

Application details

Due to WACKER® AK 10 many diverse applications, no general processing information can be provided.

Parameters will vary from application to application.

Available in a range of viscosities, WACKER® SILICONE FLUIDS AK are miscible with each other in any ratio.

The standard product's viscosity can thus be altered to suit your individual needs.

WACKER® AK 10 is a non-polar liquid and is immiscible with strong polar solvents such as water.

In aliphatic and aromatic hydrocarbons, chlorohydrocarbons, ethers, esters, ketones and higher alcohols, WACKER® AK 10 is soluble in any proportion.

In some anhydrous lower alcohols, in particular butanol, isopropyl alcohol and dioxane, the solubility is good.

Before the product is used with solvents for the first time, it is advisable to perform a lab-scale test.

When solvents are used, please remember to read the appropriate hazard infromation.

- release agent
- lubricant
- hydraulic fluid
- antifoam agent
- liquid dielectric for electrical and electronic equipment
- heat-transfer oil
- polish additive
- additive for textile and fiber auxiliaries

Silicone fluids from our BELSIL® line are available for the cosmetic sector.

Whenever particularly high heat and shear resistance is required, we recommend silicone fluids from our AK stab, AK visc and AKC product lines.

Specialty grades of the product (available as WACKER® PLASTICIZER) will be needed for use as a silicone plasticizer in RTV-1 sealants.

Packaging and storage

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

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.

QR Code WACKER® AK 10

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

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