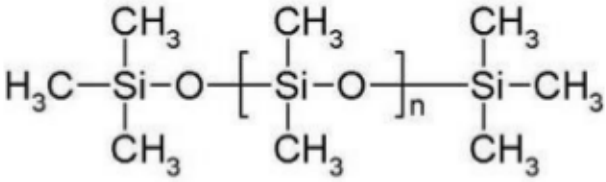
# WACKER® AK 350

SILICONE FLUID

**Product description**

Structural formula:



WACKER® AK 350 is a linear, non-reactive polydimethylsiloxane with a viscosity of approx. 350 mm²/s. Due to its chemical structure, WACKER® AK 350 has an outstanding property profile, which sets it apart from organic materials such as mineral oils.

**Properties**

WACKER® AK 350 is a clear, odorless and colorless liquid.

**Special features**

- 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 flash point
- high heat resistance
- good solubility in a wide range of solvents

**Application**

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

For pharmaceutical applications, we recommend specialty silicone fluids from our SILFAR® line. 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.

**Processing**

Due to WACKER® AK 350 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 350 is a non-polar liquid and is immiscible with polar solvents such as water or short-chain alcohols. In aliphatic and aromatic hydrocarbons, chlorohydrocarbons, ethers, esters, ketones and higher alcohols, WACKER® AK 350 is soluble in any proportion.
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 information.

**Storage**

Maximum temperature allowed during storage and transportation:
50 °C
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.

## Product data

| Typical general characteristics | Inspection Method | Value |
|---|---|---|
| Appearance | | colorless, clear |
| Viscosity, kinematic at 25 °C | DIN 53019 | approx. 350 mm²/s |
| Density at 25 °C | DIN 51757 | approx. 0,97 g/cm³ |
| Refractive index at 25 °C | | approx. 1,403 |
| Flash point | ISO 2719 | 260 °C |
| Surface tension at 25 °C | | 0,021 N/m |
| Ignition temperature (liquids) | EN 14522 | 410 °C |

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