

Oratech Silicone Oils 47 V 50 to 47 V1000

Description

Silicone Oils 47 V 50 to 47 V 1000 are straight chained polydimethylsiloxanic fluids.

Properties

Silicone OILS 47 V 50 to 47 V 1000 have the following properties:

- Very good resistance to high and low temperature.
- Good combustion resistance.
- Good dielectric properties.
- Low surface tension.
- High compressibility.
- Absence of ageing upon exposure to atmospheric agents.
- Good oxidation resistance.
- Little change in viscosity with temperature.
- Good resistance to high and prolonged shear stress.

Applications

- Thermostatic fluids (- 50°C to + 200°C).
- Dielectric fluids (impregnation of paper for condensers).
- Anti-blotting products for photocopying machines.
- Thinning and plastifying agents for RTV's and silicone sealants.
- Lubricating and heat protecting agents for textile threads (synthetic sewing threads).
- Ingredients in maintenance products (polishes, wax polishes, floor and furniture polishes, etc.)
- Paint additives (anti-cratering, anti-floating/flooding and antiscratching effects, etc.)
- Water repellent treatment :
 - of powders (for paints and plastics),
 - of fibres : glass fibres.
- Release agents (mould release of plastics and metal castings).
- Lubricants (lubrication of elastomers or plastics on metals).
- Surfactants for styrene-butadiene foam.

Characteristics

Silicone OILS 47V100

- Appearance - Colourless, limpid liquid
- Viscosity at 25 °C, mm²/s, approx – 100
- Specific gravity at 25 °C, approx - .965
- Flash point (closed cup), °C, approx - ≥ 300
- Freezing point, °C, approx - -55
- Refractive index at 25 °C, approx – 1.403
- Surface tension at 25 °C, mN/m approx – 20.9
- Vapour pressure at 200 °C, Pa, approx – 1.33
- Volume expansion coeff. Between 25 and 100 °C, approx - 9.45.10⁻⁴
- Specific heat capacity between 40 and 200 °C, J/g, °C – 1.46
- Thermal conductivity, W/m°C, approx – 0.16
- Viscosity / temperature coeff. (1), approx - .60
- Dielectric strength at 25 °C, kV/mm, approx - 16

- Dielectric constant at 25 °C between 0.5 and 100 kHz, approx – 2.80
- Power factor at 25 °C, at 100 kHz, Approx - 1.10⁻⁴
- Permittivity at 25 °C, Ω.cm, approx - 1.10¹⁵

(1) Viscosity / temperature coefficient = 1 - (viscosity at 100 °C / viscosity at 40 °C)

Packaging

Silicone OILS 47 V 50 to 47 V 1000 are available in 5KG, 20KG and 200KG drums

Storage and shelf life

When stored in its original unopened packaging at a temperature of between -20 and +50°C, **Silicone OILS 47 V 50 to 47 V 1000** may be stored for up to 3 years from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.

Past this date, Vic Lube no longer guarantees that the product meets the sales specifications.

Safety

Consult the Safety Data Sheet for **Silicone OILS 47 V 50 to 47 V 1000**.

