

RHODORSIL® OILS 47 V 5 000 TO 47 V 1 000 000

High viscosity silicone oils

Description RHODORSIL OILS 47 V 5 000 to 47 V 1 000 000 viscosities:
(5 000 - 10 000 - 12 500 - 30 000 - 60 000 - 100 000 - 150 000 - 200 000 - 300 000 - 500 000 - 600 000 - 1 000 000) are dimethylpolysiloxane polymers with linear chains.

- Special features**
- Excellent thermal stability
 - Good resistance to combustion
 - Good dielectric properties
 - Low freezing point
 - Low surface tension
 - High compressibility
 - Good oxidation resistance
 - Absence of ageing under exposure to weather conditions
 - Low variation of viscosity with temperature
 - Good shear resistance
 - Non miscible with most of organic materials
 - Soluble in aromatic, aliphatic and chlorinated solvents
 - Insoluble in water and alcohols

- Applications** RHODORSIL OILS 47 V 5 000 to 47 V 1 000 000 can be used as:
- antiadherent agents : mould release of plastics and metal castings,
 - lubrifants : lubrication of elastomers and plastics on metal,
 - hydraulic damping fluids,
 - additives in maintenance products (wax polishes, floor and furniture polishes...).

Characteristics

Appearance.....	clear - colourless liquids
Viscosity at 25°C mm ² /s approx.....	5 000 to 1 000 000
Density at 25°C approx.....	0.973
Flash point (open cup) °C.....	> 300
Fire point °C.....	> 350
Pour point °C approx.....	- 45
Refractive index at 25°C approx.....	1.404
Surface tension at 25°C nN/m approx.....	21.1
Vapour tension at 200°C Pa, approx.....	1.33
Expansion coefficient between	
• 25 and 100°C cm ³ /cm ³ °C approx.....	9.45 10 ⁻⁴
Specific heat between 40 and 200°C	
• J/g °K approx.....	1.50

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• Cal/g K approx.....	0.36
Thermal conductivity W/m. K approx.....	0.16
Viscosity/temperature coefficient (1) approx.....	0.62
Dielectric strength at 25°C KV/mm approx.....	18
Permittivity at 25°C approx.....	2.80
Dielectric dissipation factor tg	
• at 25°C and 100 Khz approx.....	1. 10 ⁻⁴
D.C. resistivity at 25°C cm approx.....	1.10 ¹⁵

$$(1) \text{ Viscosity/temperature coefficient} = 1 - \frac{\text{Viscosity at } 99^{\circ}\text{C}}{\text{Viscosity at } 38^{\circ}\text{C}}$$

Packaging

RHODORSIL OILS 47 V 5 000 to 47 V 1 000 000 are supplied in 25, 200 kg drums, in 1000 kg containers or in tankers.

Storage and shelf-life

When stored in its original unopened packaging at a temperature of between -20 and + 50°C, **RHODORSIL OILS 47 V 5 000 to 47 V 1 000 000** may be stored for up to 36 months from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.
Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety

See safety data sheet of **RHODORSIL OILS 47 V 5 000 to 47 V 1 000 000**.

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