

BLUESILTM

FLD 47 V 5 000 to 47 V 1 000 000

High Viscosity Silicone Oils

Description	BLUESIL FLD 47 V 5 000 to 47 V 1 000 000 (viscosities 5 000 - 10 000 - 12 500 - 30 000 - 60 000 - 300 000 – 500 000 - 1 000 000) are dimethylpolysiloxane polymers with linear chains.
Examples of applications	<p>BLUESIL FLD 47 V 5 000 to 47 V 1 000 000 can be used as:</p> <ul style="list-style-type: none"> • Antiadherent agents: mould release of plastics and metal castings, • Lubricants: lubrication of elastomers and plastics on metal, • Hydraulic damping fluids, • Additives in maintenance products (wax polishes, floor and furniture polishes...).
Advantages	<ul style="list-style-type: none"> • 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
Characteristics	<p>Appearance clear - colourless liquids</p> <p>Viscosity at 25°C, mm²/s, approx..... 5 000 to 1 000 000</p> <p>Density at 25°C, approx0.973</p> <p>Flash point (open cup), °C> 300</p> <p>Fire point, °C> 350</p> <p>Pour point, °C, approx..... - 45</p> <p>Refractive index at 25°C, approx.1.404</p> <p>Surface tension at 25°C nN/m, approx.21.1</p> <p>Vapour tension at 200°C, Pa, approx. 1.33</p>

BLUESIL™ FLD 47 V 5 000 to 47 V 1 000 000

Characteristics (cont')	Expansion coefficient between 25°C and 100°C, cm ³ /cm ³ . °C, approx9.45 10 ⁻⁴
	Specific heat between 40°C and 200°C:
	- J/g°K, approx. 1.50
	- 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

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

Packaging **BLUESIL FLD 47 V 5 000 to 47 V 1 000 000** are supplied in 25 kg, 200 kg drums, in 1000 kg containers or in tankers.

Storage and shelf life When stored in their original unopened packaging at a temperature of between – 20°C and + 50°C, **BLUESIL FLD 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 products meet the sales specifications.

Safety Consult the Safety Data Sheets of **BLUESIL FLD 47 V 5 000 to 47 V 1 000 000**.

BLUESIL™ FLD 47 V 5 000 to 47 V 1 000 000

Visit our website www.bluestarsilicones.com

EUROPE

Bluestar Silicones France
21 Avenue Georges Pompidou
F69486 Lyon Cedex 03
FRANCE
Tel. (33) 4 72 13 19 00
Fax (33) 4 72 13 19 88

NORTH AMERICA

Bluestar Silicones USA
2 Tower Center Boulevard
Suite 1601
East Brunswick, NJ 08816-1100
United States
Tel. (1) 732 227-2060
Fax. (1) 732 249-7000

LATIN AMERICA

Bluestar Silicones Brazil Ltda.
Av. Maria Coelho Aguiar, 215
Bloco G – 1º andar
05804-902-Sao Paulo – SP-
Brazil
Tel. (55) 11 37477887

ASIA PACIFIC

Bluestar Silicones Hong Kong
Trading Co. Ltd
29th Floor, 88 Hing Fat Street
Causeway Bay
Hong Kong
Tel. (852) 3106 8200
Fax (852) 2979 0241

Warning to the users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. BLUESTAR SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and BLUESTAR SILICONES is at their disposal to supply any additional information.