

# BLUESIL<sup>TM</sup>

## 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.

Refer to the regulatory attestation for the conformance to any regulated applications

#### Examples of applications

**BLUESIL FLD 47 V 5 000 to 47 V 1 000 000** can be used as:

- 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...).

**Warning: It is the sole responsibility of the user to select the product in the BLUESTAR SILICONES range that meets any requirements for their applications**

#### Advantages

- 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

Appearance .....	clear - colourless liquids
Viscosity at 25°C, mm <sup>2</sup> /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

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

<b>Characteristics (cont')</b>	Expansion coefficient between 25°C and 100°C, cm <sup>3</sup> /cm <sup>3</sup> . °C, approx.....	9.45 10 <sup>-4</sup>
	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 <sup>-4</sup>
	Volume resistivity at 25°C, Ω.m , approx.....	1.10 <sup>15</sup>


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

**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 packaging at a temperature of between -20°C et +50°C, **BLUESIL FLD 47 V 5 000 to 47 V 1 000 000** may be stored for up to 36 months from their date of manufacture.  
Comply with the storage instructions and expiry date marked on the packaging.  
Beyond 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**.

Visit our website [www.bluestarsilicones.com](http://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 – 1°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

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