

# BLUESIL FLD 47V500 000

**Description** BLUESIL FLD 47 V 5 000 to 47 V 1 000 000 (viscosities 5 000 - 10 000 - 12 500 - 30 000 - 60 000 - 100 000 - 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

- Key benefits**
- 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

Typical properties	BLUESIL FLD 47V500 000
Appearance	Limpid liquid, colourless

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

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, W.m , approx..... 1.10<sup>15</sup>

1) Viscosity / temperature coefficient = 1 – Viscosity at 99 °C / Viscosity at 38 °C

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

# BLUESIL FLD 47V500 000

<b>Instruction of use</b>	Please consult your local ELKEM SILICONES sales office.
<b>Regulation</b>	Please consult your local ELKEM SILICONES sales office.
<b>Limitations</b>	Please consult your local ELKEM SILICONES sales office.
<b>Packaging</b>	<ul style="list-style-type: none"><li>• BLUESIL FLD 47V500 000 is available in<ul style="list-style-type: none"><li>○ Pail of 25 KG (55.13 LB)</li><li>○ Drum of 200 KG (441 LB)</li></ul></li></ul>
<b>Storage and shelf life</b>	When stored in its original packaging: BLUESIL FLD 47V500 000 may be stored at temperatures between -20°C / -4°F and 50°C / 122°F for up to 36 months from its date of manufacturing. Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
<b>Safety</b>	Please consult the Safety Data Sheet of: BLUESIL FLD 47V500 000

Visit our website [www.elkem.com/silicones/](http://www.elkem.com/silicones/)

#### 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. ELKEM 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. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. 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 ELKEM SILICONES is at their disposal to supply any additional information.