

BLUESIL FLD 47V5 000 to 47V500 000

Description **BLUESIL FLD 47 V 5 000 to 47V500 000** are 100% active dimethylpolysiloxane polymers with linear chains.

These silicone fluids are characterized by low surface tension and excellent thermal stability.

BLUESIL FLD 47 V 5 000 to 47V500 000 are High Viscosity products, available in a complete range of viscosities (5 000 - 10 000 - 12 500 - 30 000 - 60 000 - 100 000 - 300 000 – 500 000) extending their usage to a wide variety of industrial applications.

Examples of applications

BLUESIL FLD 47 V 5 000 to 47V500 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 ELKEM 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

Appearance	Clear - colourless liquids
Viscosity (At 25°C, mm ² /s, approx.)	5 000 to 500 000
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 ³ /cm ³ , °C, approx.)	9.45 10 ⁻⁴

Specific heat between 40°C and 200°C (J/g°K, approx.)	1.50
Specific heat between 40°C and 200°C (Cal/g°K, approx.)	0.36

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Thermal conductivity (<i>W/m²K, approx.</i>)	0.16
Viscosity / temperature coefficient (<i>approx.</i>)	0.62
Dielectric strength (<i>At 25°C, kV/mm, approx.</i>)	18
Permittivity (<i>At 25°C, approx.</i>)	2.80
Dielectric dissipation factor tg (<i>At 25°C and 100 kHz, approx.</i>)	1. 10 ⁻⁴
Volume resistivity (<i>At 25°C, W.m, approx.</i>)	1.10 ¹⁵

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

Instruction of use	Please consult your local ELKEM SILICONES sales office.
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none"> • BLUESIL FLD 47V10 000 is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Tote bin of 950 KG (2094.75 LB) • BLUESIL FLD 47V100 000 is available in <ul style="list-style-type: none"> ○ Pallet of 950 KG (2094.75 LB) ○ Drum of 200 KG (441 LB) • BLUESIL FLD 47V12 500 is available in <ul style="list-style-type: none"> ○ Pail of 25 KG (55.13 LB) ○ Drum of 200 KG (441 LB) ○ Tote bin of 950 KG (2094.75 LB) • BLUESIL FLD 47V30 000 is available in <ul style="list-style-type: none"> ○ Pail of 25 KG (55.13 LB) ○ Drum of 200 KG (441 LB) ○ Tote bin of 950 KG (2094.75 LB) • BLUESIL FLD 47V300 000 is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Pail of 25 KG (55.13 LB) • BLUESIL FLD 47V5 000 is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Tote bin of 950 KG (2094.75 LB) • BLUESIL FLD 47V500 000 is available in <ul style="list-style-type: none"> ○ Pail of 25 KG (55.13 LB) ○ Drum of 200 KG (441 LB) • BLUESIL FLD 47V60 000 is available in <ul style="list-style-type: none"> ○ Drum of 200 KG (441 LB) ○ Tote bin of 950 KG (2094.75 LB)
Storage and shelf life	When stored in its original packaging: BLUESIL FLD 47V10 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. BLUESIL FLD 47V100 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. BLUESIL FLD 47V12 500 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. BLUESIL FLD 47V30 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.

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BLUESIL FLD 47V300 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.

BLUESIL FLD 47V5 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.

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.

BLUESIL FLD 47V60 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.

Safety

Please consult the Safety Data Sheet of:

BLUESIL FLD 47V10 000, BLUESIL FLD 47V100 000, BLUESIL FLD 47V12 500, BLUESIL FLD 47V30 000, BLUESIL FLD 47V300 000, BLUESIL FLD 47V5 000, BLUESIL FLD 47V500 000 and BLUESIL FLD 47V60 000

Visit our website 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.