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

Silicones | Delivering your potential

Technical Data Sheet n° 1068-V3 – 2018/12/12

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 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 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^3/cm^3, °C, approx.. $9.45\ 10^{-4}$

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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}

Volume resistivity at 25°C, W.m , approx..... 1.10^{15}

(1) *Viscosity / temperature coefficient = 1 – Viscosity at 99 °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.

Instruction of use

Please consult your local ELKEM SILICONES sales office.

Packaging

- BLUESIL FLD 47V10 000 is available in
  - Drum of 200 KG (441 LB)
  - Tote bin of 1000 KG (2205 LB)
- BLUESIL FLD 47V100 000 is available in
  - Pallet of 1000 KG (2205 LB)
- BLUESIL FLD 47V12 500 is available in
  - Pail of 25 KG (55.13 LB)
- BLUESIL FLD 47V30 000 is available in
- BLUESIL FLD 47V300 000 is available in
- BLUESIL FLD 47V5 000 is available in
- BLUESIL FLD 47V500 000 is available in
- BLUESIL FLD 47V60 000 is available in

Storage and shelf life

When stored in its original packaging:
BLUESIL FLD 47V1 000 000 may be stored for up to 36 months from its date of manufacturing.
BLUESIL FLD 47V10 000 may be stored at a temperature 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 a temperature 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 a temperature 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 a temperature between -20 °C/ -4 °F and 50 °C/ 122 °F for up to 36 months from its date of manufacturing. BLUESIL FLD 47V300 000 may be stored at a temperature 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 a temperature 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 a temperature 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 a temperature 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.
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Safety	Please consult the Safety Data Sheet of: BLUESIL FLD 47V1 000 000, 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

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