BLUESIL FLD 47 V 50 to 47 V 1000

Silicones — Delivering your potential

Description	**BLUESIL FLD 47 V 50 to 47 V 1000** are straight chained polydimethylsiloxanic fluids.

Examples of applications

BLUESIL FLD 47 V 50 to 47 V 1000 are used as:

- Thermostatic fluids (– 50 °C to + 200 °C).

- Dielectric fluids (impregnation of paper for condensers).

- Anti-blotting products for photocopying machines.

- Thinning and plastifying agents for RTV's and silicone sealants.

- Lubricating and heat protecting agents for textile threads (synthetic sewing threads).

- Ingredients in maintenance products (polishes, wax polishes, floor and furniture polishes, etc.).

- Paint additives (anti-cratering, anti-floating/flooding and anti-scratching effects, etc.).

- Water repellent treatment :

    o   of powders (for paints and plastics),

    o   of fibres : glass fibres.

- Release agents (mould release of plastics and metal castings).

- Lubricants (lubrication of elastomers or plastics on metals).

- Surfactants for styrene-butadiene foam.

Key benefits

BLUESIL FLD 47 V 50 to 47 V 1000 have the following properties:

- Very good resistance to high and low temperature.

- Good combustion resistance.

- Good dielectric properties.

- Low surface tension.

- High compressibility.

- Absence of ageing upon exposure to atmospheric agents.

- Good oxidation resistance.

- Little change in viscosity with temperature.

- Good resistance to high and prolonged shear stress.

Typical properties

BLUESIL FLD	47V50	47V100	47V300	47V350	47V500	47V1000

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BLUESIL FLD 47 V 50 to 47 V 1000

Appearance	Colourless, limpid liquid					
Viscosity at 25°C, mm²/s, approx.	50	100	300	350	500	1000
Specific gravity at 25°C, approx.	0.959	0.965	0.970	0.970	0.970	0.970
Flash point (closed cup), °C, approx.	280	≥ 300	≥ 300	≥ 300	≥ 300	≥ 300
Freezing point, °C, approx..	- 55	- 55	- 50	- 50	- 50	- 50
Refractive index at 25°C, approx.	1.402	1.403	1.403	1.403	1.403	1.403
Surface tension at 25°C, mN/m, approx.	20.7	20.9	21.1	21.1	21.1	21.1
Vapour pressure at 200 °C, Pa, approx.	1.33	1.33	1.33	1.33	1.33	1.33
Volume expansion coeff. between 25 and 100°C, approx.	$1.05.10^{-3}$	$9.45.10^{-4}$	$9.45.10^{-4}$	$9.45.10^{-4}$	$9.45.10^{-4}$	$9.45.10^{-4}$
Specific heat capacity between 40 and 200°C, J/g, °C	1.46	1.46	1.46	1.46	1.46	1.46
Thermal conductivity, W/m°C, approx.	0.16	0.16	0.16	0.16	0.16	0.16
Viscosity / temperature coeff. (1), approx.	0.59	0.60	0.62	0.62	0.62	0.62
Dielectric strength at 25°C, kV/mm, approx.	15	16	16	16	16	16
Dielectric constant at 25°C between 0.5 and 100 kHz, approx.	2.80	2.80	2.80	2.80	2.80	2.80
Power factor at 25°C, at 100 kHz, approx.	1.10^{-4}	1.10^{-4}	1.10^{-4}	1.10^{-4}	1.10^{-4}	1.10^{-4}
Permittivity at 25°C, W.cm, approx.	1.10^{14}	1.10^{15}	1.10^{15}	1.10^{15}	1.10^{15}	1.10^{15}

(1) Viscosity / temperature coefficient = 1 - (viscosity at / viscosity at)

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 47V1 000 is available in

    o Pallet of 1000 KG (2205 LB)

    o Drum of 200 KG (441 LB)

    o Drum of 25 KG (55.13 LB)

- BLUESIL FLD 47V100 is available in

- BLUESIL FLD 47V350 is available in

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BLUESIL FLD 47 V 50 to 47 V 1000

- BLUESIL FLD 47V50 is available in

    o   Tote bin of 1000 KG (2205 LB)

    o   Pail of 20 KG (44.1 LB)

- BLUESIL FLD 47V500 is available in

Storage and shelf life	When stored in its original packaging: BLUESIL FLD 47V1 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 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 may be stored at a temperature between -20 °C/ -4 °F and 50 °C/ 122 °F for up to months from its date of manufacturing. BLUESIL FLD 47V350 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 47V50 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 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, BLUESIL FLD 47V100, BLUESIL FLD 47V300, BLUESIL FLD 47V350, BLUESIL FLD 47V50 and BLUESIL FLD 47V500

Visit our website www.silicones.elkem.com