

BLUESILTM
FLD 47 V 3 to 47 V 20

distribuito da:
ANDREA GALLO DI LUIGI S.r.l.
azienda fondata nel 1892
Via Erzelli, 9 - 16152 Genova (Italy)
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www.andregallo.it

Description	BLUESIL FLD 47 V 3 to 47 V 20 are a low viscosity polydimethylsiloxanic fluids.
Examples of applications	BLUESIL FLD 47 V 3 to 47 V 20 are used as: <ul style="list-style-type: none">• Lubricants (to lubricate elastomers or plastics on metal).• Low temperature hydraulic fluids.• Dielectric fluids (impregnating paper for capacitors).• Thinning agents for BLUESIL RTV (two component, room temperature vulcanizing silicone elastomers).
Advantages	BLUESIL FLD 47 V 3 to 47 V 20 have the following properties: <ul style="list-style-type: none">• Very good heat stability• Good dielectric properties• Low surface tension• High compressibility• Excellent weathering resistance• Good oxidation resistance• Low freezing point• Less change in viscosity as a function of temperature than non silicone oils• Good resistance to high and prolonged shear forces• Low heat of combustion• Limited combustion.

BLUESIL™ FLD 47 V 3 to 47 V 20**Characteristics**

<i>Properties</i>	BLUESIL FLD		
	47 V 3	47 V 5	47 V 20
Appearance	Colourless limpid liquid		
Viscosity at 25 °C, mm ² /s, approx.	3	5	20
Specific gravity at 25 °C, approx	0.890	0.910	0.950
Flash point, °C, approx	75	120	240
Freezing point, °C, approx.	- 80	- 65	-60
Refractive index at 25 °C, approx.	1.395	1.397	1.400
Surface tension at 25 °C, mN/m, approx.	18.9	19.7	20.6
Vapour pressure at 200 °C mbar, approx.	-	-	1.33. 10 ⁻³
Volume expansion coefficient between 25 and 100 °C, approx.	1.16. 10 ⁻⁵	1.15. 10 ⁻⁵	1.07. 10 ⁻⁵
Specific heat capacity between 40 and 200 °C, J/g.K., approx.	-	-	1.63
Thermal conductivity, W/m°C, approx...	0.11	0.12	0.14
Viscosity/temperature coefficient (1), approx.	-	0.55	0.59
Dielectric strength at 25 °C, kV/mm, appr.	14	14	14
Dielectric constant at 25 °C between 0.5 and 100 kHz, approx.	2.5	2.6	2.7
Power factor at 25 °C at 100 kHz, approx.	1. 10 ⁻⁵	1. 10 ⁻⁵	1. 10 ⁻⁵
Permittivity at 25 °C, Ω.cm, approx.	1.10 ¹⁵	1.10 ¹⁵	1.10 ¹⁵

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



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Packaging

Theses fluids are delivered in:

- 20 kg drums for **BLUESIL FLD 47 V 3**
- 25 and 180 kg drums for **BLUESIL FLD 47 V 5**
- 25 and 200 kg drums for **BLUESIL FLD 47 V 20**

Storage and shelf-life

When stored in their original unopened packaging at a temperature of between – 20°C and + 30°C, **BLUESIL FLD 47 V 3 to 47 V 20** can be used for up to 36 months after the date of manufacture marked on the packaging (expiry date). Comply with storage instructions and the expiry date marked on the packaging.

Past this date, Bluestar Silicones no longer guarantees that the products meet the sales specifications.

Safety

Consult the Safety Data Sheets for **BLUESIL FLD 47 V 3 to 47 V 20**.

Visit our website www.bluestarsilicones.com

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