



# BLUESIL<sup>TM</sup>

## FLD 47 V 50 to 47 V 1000

<b>Description</b>	<b>BLUESIL FLD 47 V 50 to 47 V 1000</b> are straight chained polydimethylsiloxanic fluids.
<b>Examples of applications</b>	<p><b>BLUESIL FLD 47 V 50 to 47 V 1000</b> are used as:</p> <ul style="list-style-type: none"> <li>• Thermostatic fluids (– 50 °C to + 200 °C).</li> <li>• Dielectric fluids (impregnation of paper for condensers).</li> <li>• Anti-blotting products for photocopying machines.</li> <li>• Thinning and plastifying agents for RTV's and silicone sealants.</li> <li>• Lubricating and heat protecting agents for textile threads (synthetic sewing threads).</li> <li>• Ingredients in maintenance products (polishes, wax polishes, floor and furniture polishes, etc.).</li> <li>• Paint additives (anti-cratering, anti-floating/flooding and anti-scratching effects, etc.).</li> <li>• Water repellent treatment :           <ul style="list-style-type: none"> <li>- of powders (for paints and plastics),</li> <li>- of fibres : glass fibres.</li> </ul> </li> <li>• Release agents (mould release of plastics and metal castings).</li> <li>• Lubricants (lubrication of elastomers or plastics on metals).</li> <li>• Surfactants for styrene-butadiene foam.</li> </ul>
<b>Advantages</b>	<p><b>BLUESIL FLD 47 V 50 to 47 V 1000</b> have the following properties:</p> <ul style="list-style-type: none"> <li>• Very good resistance to high and low temperature.</li> <li>• Good combustion resistance.</li> <li>• Good dielectric properties.</li> <li>• Low surface tension.</li> <li>• High compressibility.</li> <li>• Absence of ageing upon exposure to atmospheric agents.</li> <li>• Good oxidation resistance.</li> <li>• Little change in viscosity with temperature.</li> <li>• Good resistance to high and prolonged shear stress.</li> </ul>



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# BLUESIL™ FLD 47 V 50 to 47 V 1000

## Characteristics

Properties	BLUESIL FLD					
	47V50	47V100	47V300	47V350	47V500	47V1000
Appearance	Colourless, limpid liquid					
Viscosity at 25 °C, mm <sup>2</sup> /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 <sup>-3</sup>	9.45.10 <sup>-4</sup>	9.45.10 <sup>-4</sup>	9.45.10 <sup>-4</sup>	9.45.10 <sup>-4</sup>	9.45.10 <sup>-4</sup>
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 <sup>-4</sup>	1.10 <sup>-4</sup>	1.10 <sup>-4</sup>	1.10 <sup>-4</sup>	1.10 <sup>-4</sup>	1.10 <sup>-4</sup>
Permittivity at 25 °C, Ω.cm, approx.	1.10 <sup>14</sup>	1.10 <sup>15</sup>	1.10 <sup>15</sup>	1.10 <sup>15</sup>	1.10 <sup>15</sup>	1.10 <sup>15</sup>

(1) Viscosity / temperature coefficient = 1 - (viscosity at 100 °C / viscosity at 40 °C)

## Packaging

**BLUESIL FLD 47 V 50 to 47 V 1000** are available in 25 and 200 kg drums, in 1000 kg containers or in 20 tonnes tankers.



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# BLUESIL™ FLD 47 V 50 to 47 V 1000

## Storage and shelf life

When stored in its original unopened packaging at a temperature of between – 20 and + 50 °C, **BLUESIL FLD 47 V 50 to 47 V 1000** may be stored for up to 3 years from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.

Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

## Safety

Consult the Safety Data Sheet for **BLUESIL FLD 47 V 50 to 47 V 1000**.

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

### EUROPE

*Bluestar Silicones France*  
21 Avenue Georges Pompidou  
F69486 Lyon Cedex 03  
FRANCE  
Tel. (33) 4 72 13 19 00  
Fax (33) 4 72 13 19 88

### NORTH AMERICA

*Bluestar Silicones USA*  
2 Tower Center Boulevard  
Suite 1601  
East Brunswick, NJ 08816-1100  
United States  
Tel. (1) 732 227-2060  
Fax. (1) 732 249-7000

### LATIN AMERICA

*Bluestar Silicones Brazil Ltda.*  
Av. Maria Coelho Aguiar, 215  
Bloco G – 1º andar  
05804-902-Sao Paulo – SP-  
Brazil  
Tel. (55) 11 37477887

### ASIA PACIFIC

*Bluestar Silicones Hong Kong*  
Trading Co. Ltd  
29th Floor, 88 Hing Fat Street  
Causeway Bay  
Hong Kong  
Tel. (852) 3106 8200  
Fax (852) 2979 0241

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