

**Bluesil™ FLD 47V5 000 to 47V1 000 000****High Viscosity Di-Methyl Fluid**

November/2017

**Description** **Bluesil™ FLD 47V - High Viscosity** products are 100% active dimethylpolysiloxanes. These silicone fluids are linear polymers characterized by low surface tension and excellent thermal stability. **Bluesil™ FLD 47V - High Viscosity** products are available in a complete range of viscosities between 5,000 and 1,000,000 cst., extending their usage to a wide variety of industrial applications.

**Applications**

- Mold release and anti-adherence agents for plastics and metal castings
- Hydraulic damping fluids
- Lubricants for elastomers and plastics on metal
- Additives for maintenance products, wax polishes, floor and furniture polishes

**Features**

- Excellent thermal stability
- Good resistance to combustion
- Good dielectric properties
- Low surface tension
- Low freezing point
- 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 organic materials
- Soluble in aromatic, aliphatic and chlorinated solvents
- Insoluble in water and alcohols

**Typical Properties**

	<b>47V5 000 to 47V1 000 000</b>
• Type	100% Active Dimethylpolysiloxanes
• Appearance	Clear, colorless liquids
• Viscosity, 25°C, cst	5,000 to 1,000,000
• Density, 25°C	0.973
• Flash point, °C, Open Cup	>300
• Fire point, °C	>350
• Pour point, °C	-45
• Refractive index, 25°C,	1.404
• Surface tension, 25°C, Dynes/cm	21.1
• Vapor tension, 200°C, Pa	1.33
• Expansion coefficient, between 25 and 100°C, cm <sup>3</sup> /cm <sup>3</sup> °C	9.45 x 10 <sup>-4</sup>
• Specific heat, between 40 and 200°C, J/g °K (Cal/g °K)	1.50 (0.36)
• Thermal conductivity, W/m °K	0.16
• Viscosity/ temperature coefficient, (1)	0.62
• Dielectric strength, 25°C, KV/mm	18
• Permittivity, 25°C	2.80
• Dielectric dissipation factor, tg at 25°C and 100 Khz	1 x 10 <sup>-4</sup>
• D. C. Resistivity, 25°C cm	1 x 10 <sup>15</sup>

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of Bluesil™ silicone materials. Please contact our Technical Service Department for assistance in writing specifications

**Storage and shelf life** **Bluesil™ FLD 47V - High Viscosity** products when stored in their original, unopened containers at temperatures between -20 and +50°C, may be stored for up to 36 months from the date of manufacture. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

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<b>Safety</b>	Please read the container labels for <b>Bluesil™ FLD 47V - High Viscosity</b> products or consult the Material Safety Data Sheet (MSDS) before handling for safe use, physical and health hazard information. The MSDS is not included with the product packaging, but can be obtained by contacting Elkem Silicones at 866-474-6342 or consult your Elkem Silicones representative.
<b>Packaging</b>	<b>Bluesil™ FLD 47V - High Viscosity</b> products are supplied in 200 kg and 1000 kg containers. Certificate of analysis for each lot purchased is available on request.

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

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