

**Bluesil™ FLD 47V100, 47V350 & 47V1 000**

## Medium Viscosity Di-Methyl Fluid

November 2017

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

**Applications**

- Mold release and anti-adherence agents
- Hydraulic, heat transfer and dielectric fluids
- Lubricants
- Antifoams
- Additives for paints and coatings
- Additives for maintenance products

**Features**

- Excellent high and low temperature resistance
- Excellent resistance to oxidation and hydrolysis
- Excellent resistance to atmospheric agents: oxygen, ozone, moisture, UV light
- Chemically resistant and non-corrosive
- High compressibility
- Small change in viscosity due to temperature in comparison to non-silicone oils
- Good dielectric properties
- Low surface tension
- Low freezing point

**Typical Properties**

	<b>47V100</b>	<b>47V350</b>	<b>47V1 000</b>
• Type	100% Active Dimethylpolysiloxanes		
• Appearance	----- Clear, colorless liquids -----		
• Viscosity, 25°C, (77°F), cst	100	350	1000
• Specific gravity, 25°C (77°F)	0.965	0.969	0.973
• Flash point, °C, (°F), Open Cup	-----	>300 (572)	-----
• Freeze point, °C, (°F)	-55 (-67)	-50 (-58)	-50 (-58)
• Refractive index, 25°C, (77°F)	1.403	1.403	1.404
• Surface tension, 25°C, (77°F), Dynes/cm	20.9	21.1	21.1
• Vapor pressure, 200°C, (392°F) mm Hg	-----	1x10 <sup>-2</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.

**FDA Status**

**Bluesil™ FLD 47V** Medium Viscosity can be used in non-standardized foods (other than milk) in amounts up to ten parts per million under the Federal Food, Drug and Cosmetic Act. Any limitations on use in standardized foods should be observed.

**Bluesil™ FLD 47V** Medium Viscosity may be used in the manufacture of food packaging materials, such as paper and paperboard, adhesives, and animal glues, subject to appropriate limitations on extractables (see FDA Regulations 21 CFR 173.340, 175.105, 175.300, 176.170, 176.210, 177.1210, and 178.3120).

# Bluesil™ FLD 47V100, 47V350 & 47V1 000

<b>Storage and shelf life</b>	<b>Bluesil™ FLD 47V</b> Medium Viscosity products when stored in the original, unopened container at room temperatures (5-40°C), have practically unlimited shelf life.
<b>Safety</b>	Please read the container labels for <b>Bluesil™ FLD 47V - Medium 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 Medium 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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