



PSF-1.5cSt Pure Silicone Fluid

Super Low-Viscosity Silicone Fluid: Decamethyltetrasiloxane (CAS # 141-62-8)



Pure Silicone Fluid 1.5cSt has a viscosity similar to water.

Pure Silicone Fluid 1.5cSt is a super low-viscosity (1.5cSt @ 25°C) Polydimethylsiloxane that is composed of Decamethyltetrasiloxane (CAS#141-62-8). The fluid is clear, colorless and odorless.

PSF-1.5cSt is characterized by its low viscosity (close to water), high compressibility, low surface tension (spreadability), excellent low temperature stability (pour point – 90°C), low viscosity change at extremely low temperatures and excellent lubricity. Due to its low temp stability, it is widely used as a low temperature bath fluid and low temperature heat transfer fluid.

PSF-1.5cSt (Dimethicone) is also used in a number of Personal Care products due to its excellent spreading and unique volatility characteristics. It features good solubility in anhydrous alcohols and in a wide variety of solvents. In addition, it leaves no residue or build-up, has a transient effect, and a non-greasy feel.

Applications include: heat transfer fluid, low temperature bath fluid, dielectric fluid, low viscosity damping fluid, lubricant and base fluid in personal care products

Specifications

| | |
|-----------------|-----------------------------------|
| Product Code | PSF-1.5cSt |
| Chemical family | Polydimethylsiloxane |
| Chemical name | Decamethyltetrasiloxane |
| CAS No. | 141-62-8 |
| INCI Name | Dimethicone |
| Appearance | Clear, colorless & odorless fluid |
| Pour Point | -100°C |
| Minimum Order | 1-gallon (3.785 liters) |

Features

- Super low viscosity
- Excellent Lubrication
- Pour Point: - 100°C
- Excellent Low Temperature Serviceability
- Low viscosity change at low temperatures
- Fast evaporation rate
- High Compressibility
- High Oxidation Resistance
- Low Surface Tension: high spreadability
- VOC Exempt/ HAP Free
- RoHS Compliant

Typical Product Data

| Specific Gravity | Refractive Index | Pour Point | Flash Point closed cup | Boiling Point @ 760mm | Surface Tension dynes/cm @ 25°C | Vapor Pressure @ 25°C | Volatile content @ 150°C (open) | Molecular weight |
|------------------|------------------|------------|------------------------|-----------------------|---------------------------------|-----------------------|---------------------------------|------------------|
| 0.851 | 1.3874 | -100°C | 57°C | 194°C | 18.0 | 1mmHg | 100% | 340 |

Thermal Properties

| Thermal Conductivity @ 50°C g cal/cm•sec• °C | Coeff. of Thermal Expansion cc/cc °C | Specific Heat cal/g/ °C |
|---|---|----------------------------|
| 0.00025 | 0.00134 | 0.410 |

* Thermal conductivity: 0.10 W/m °C

* Specific Heat: 1.8 J/g

Packaging

1-gallon (3.785 liters).....3.2kg net wt.
5-gallon pail (18.9 liters).....16kg net wt.
55-gallon drum.....170kg net wt.

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Dielectric Properties

| Dielectric Strength | Dielectric Constant (50Hz) @ 25C | Dielectric Constant (100Hz) @ 25C | Dissipation Factor (100Hz) @ 25C |
|---------------------|----------------------------------|-----------------------------------|----------------------------------|
| 350 volts/mil | 2.39 | 2.36 | 0.0004 |

CAS Information

| Identity | CAS # | % |
|-------------------------|----------|-----|
| Decamethyltetrasiloxane | 141-62-8 | 100 |

For More Information, Contact:

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