

PSF-2cSt Pure Silicone Fluid

Super Low-Viscosity PDMS Silicone Oil Dodecamethylpentasiloxane CAS# 141-63-9



PSF-2cSt Pure Silicone Fluid possesses excellent low temp stability

PSF-2cSt Pure Silicone Fluid is a volatile Polydimethylsiloxane that is composed of Dodecamethylpentasiloxane (CAS#141-63-9). The fluid is clear, colorless and odorless with a viscosity of 2cSt (centistokes) measured @ 25°C.

PSF-2cSt Silicone Fluid is characterized by its water-like low viscosity, low surface tension (spreadability), low pour point, high compressibility, excellent low temperature stability, low viscosity increases even at extremely low temperatures, excellent lubricity, and high dielectric strength.

Due to its low temp stability and low viscosity increase at cold temperatures, it is widely used as a low temperature bath fluid and low temperature heat transfer fluid.

PSF-2cSt (Dimethicone) is also used in a range 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.

Specifications

Product Code	PSF-2cSt
Chemical family	Polydimethylsiloxane
Chemical name	Dodecamethylpentasiloxane
CAS No.	CAS# 141-63-9
INCI Name	Dimethicone
Appearance	Clear, colorless, odorless fluid
Minimum order	1-gallon (3.785 liters)

Features

- Water-like viscosity
- Low surface tension
- Excellent Lubrication
- Excellent Low Temperature Serviceability
- Low pour point
- clear, colorless, odorless fluid
- High Compressibility
- Low viscosity changes at low temperatures

CAS Information

Identity	CAS #
Dodecamethylpentasiloxane	141-63-9

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
0.873	1.3900	-100°C	87°C	229°C	18.7	1mmHg	100%	410

Thermal Properties

Thermal Conductivity @ 50°C g cal/cm•sec• °C	Thermal Expansion cc/cc °C	Specific Heat cal/g/ °C
0.00026	0.00117	0.410

* Thermal conductivity: 0.11 W/m °C

* Specific Heat: 1.8 J/g

Packaging

1-gallon (3.785 liters).....	3.28kg net wt.
5-gallon pail (18.9 liters).....	16.4kg net wt.
55-gallon drum.....	170kg net wt.

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Dielectric Properties

Dielectric Strength	Dielectric Constant (100Hz) @ 25C	Dissipation Factor (100Hz) @ 25C
350 volts/mil	2.44	0.0004

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