

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 super low-viscosity linear Polydimethylsiloxane that is primarily Dodecamethylpentasiloxane (CAS#141-63-9). The fluid is clear, colorless and odorless with a viscosity of 2cSt (centistokes) @ 25°C.

PSF-2cSt Pure Silicone Fluid is characterized by its low viscosity, fast rate of evaporation, low pour point (-100°C), low VTC (viscosity change at temperature), low surface tension (high spreadability), high dielectric strength, damping action at low temperatures and excellent lubrication. In closed systems, it is an excellent low temperature bath fluid and heat transfer fluid.

PSF-2cSt (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. Products include: antiperspirants, deodorants, skincare lotions, suntan lotions, cosmetics etc.

Specifications

Product Code	PSF-2cSt
Chemical family	Polydimethylsiloxane
Chemical name	Dodecamethylpentasiloxane
CAS No.	CAS# 141-63-8
INCI Name	Dimethicone
Appearance	Clear, colorless, odorless fluid
Meets Federal Spec	VV-D-1078 Silicone as damping fluid
Minimum order	1-gallon (3.785 liters)

CAS Information

Identity	CAS #	%
Dodecamethylpentasiloxane	141-63-9	100

Features

- Super low viscosity
- Low surface tension
- Excellent Lubrication
- Excellent Low Temperature Serviceability
- Pour Point: - 100°C Pour Point
- High Damping action...meets VV-D-1078 Silicone as damping fluid
- clear, colorless, odorless fluid
- High Compressibility
- Low viscosity change at low temperatures
- 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
0.873	1.3900	-100°C	75°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.
F.O.B. Phila, PA U.S.A.	

Dielectric Properties

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

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