



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.

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

PSF-1.5cSt 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-1.5cSt (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.

Applications include heat transfer fluid, low temperature bath fluid, dielectric fluid, low viscosity damping fluid, lubricant and carry agent 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

- Water-like viscosity
- Low Surface Tension: high spreadability
- Low Pour Point
- Excellent Lubricity
- Excellent Low Temperature Serviceability
- Low viscosity increases at low temperatures
- High Compressibility
- High Dielectric strength

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.
F.O.B. Phila, PA U.S.A.A.	

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

For More Info, Contact:
Clearco Products Co., Inc.
15 York Road
Willow Grove, PA 19090
U.S.A.

Tel: (215) 366-7860
Fax: (215) 366-7862
Email: info@clearcoproducts.com
Web: www.clearcoproducts.com