



Pure Silicone Fluid 1.5cSt (Decamethyltetrasiloxane)

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 Polydimethylsiloxane that is composed of primarily Decamethyltetrasiloxane (CAS#141-62-8). The product is clear, colorless and odorless.

PSF-1.5cSt is characterized by its low viscosity (close to water), high damping action (meets VV-D-1078 “Silicone as Damping Fluid”), 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.

Products include: antiperspirants, deodorants, skincare lotions, suntan lotions, cosmetics etc.

Specifications

Chemical family	Polydimethylsiloxane
Chemical name	Decamethyltetrasiloxane
CAS No.	141-62-8
INCI Name	Dimethicone
Appearance	Clear, colorless & odorless fluid
Meets NSN No	NSN 9150-01-193-2060
Pour Point	-90°C
Minimum Order	1-gallon

Features

- Super low viscosity
- Excellent Lubrication
- Excellent Low Temperature Serviceability
- Pour Point: - 90°C Pour Point
- Fast evaporation rate
- High Damping Action: meets VV-D-1078
- Meets specifications of NSN 9150-01-193-2060
- High Compressibility
- High Oxidation Resistance
- Low Surface Tension – high spreadability

CAS Information

Identity	CAS #	%
Decamethyltetrasiloxane	141-62-8	3-95

VOC Status

- VOC Exempt
- VOC Exempt carrying agent – alternative to non VOC compliant solvents
- Add to non VOC-Compliant formulations to achieve compliancy

Typical Product Data

Viscosity @25°C	Specific Gravity	Viscosity-Temp Coefficient	Flash Point	Pour Point	Refractive Index	Thermal Expansion cc/cc °C	Thermal Conductivity g/cal/cm/ sec °C	Surface Tension	Dielectric Constant	Dielectric Strength volts/mil
1.5cSt	0.853	0.46	63°C	-90°C	1.3880	0.00134	0.00025	18.0	2.39	350

Product Data (cont'd)

Boiling Point	Vapor Density (air = 1)	Vapor Pressure @ 25°C	Evaporation Rate Buty acetate = 1	% Volatile	Molecular weight
194°C	>1	4mm	0.7	100%	340

Packaging

1-gallon pail.....2.5kg / 5.5 lbs
 5-gallon pail.....13.5kg / 30 lbs
 55-gallon drum.....150kg / 330 lbs

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

For More Information, Contact:

Clearco Products Co., Inc.

3430 G. Progress Drive
 Bensalem, PA 19020

Tel: 215 639-2640

Fax: 215 639-2919

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com