

PSF-2cSt Dimethicone Fluid

Super Low-Viscosity Silicone: >90% Dodecamethylpentasiloxane CAS# 141-63-9



PSF-2cSt Dimethicone is a low viscosity silicone with low surface tension.

PSF-2cSt Dimethicone 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 (close to water)

PSF-2cSt Dimethicone Fluid is characterized by its low viscosity, fast rate of evaporation, low pour point (-100°C), low surface tension (high spreadability), excellent lubrication and low VTC (viscosity change at temperature). Due to these properties, is used as a base fluid in a wide range of personal care products that require fast evaporation and high spreadability. Unlike other volatile fluids, PSF-1.5cSt Dimethicone Fluid does not cool the skin as it evaporates and will not leave any greasy residue.

PSF-2cSt Dimethicone Fluid features good solubility in anhydrous alcohols and in a wide variety of cosmetic solvents including Cyclomethicones. In addition, it leaves no residue or build-up, has a transient effect, and a non-greasy feel. It is widely used in: antiperspirants, deodorants, skincare lotions, suntan lotions, cosmetics etc.

PSF-2cSt Dimethicone Fluid is exempt from Federal VOC regulations including California CARB, OTC and South Coast Air Quality Management.

Specifications

Chemical family	Polydimethylsiloxane
Chemical name	Dodecamethylpentasiloxane
CAS No.	CAS# 141-63-8
INCI Name	Dimethicone
Appearance	Clear, colorless, odorless fluid
Flammability	HMIS 3
Meets NSN	NSN 9150-00-754-2600
Federal Spec	VV-D-1078 Silicone as damping fluid
Minimum Order	1-gallon

Features

- Super low viscosity
 - Excellent Lubrication
 - Low Surface tension: excellent spreadability
 - Pour Point: - 100°C Pour Point
 - Clear, colorless, odorless fluid
 - Fast rate of evaporation
 - Takes greasy feel when used with other oils
 - Leaves no residue
- VOC-Exempt**
- VOC Exempt
 - Excellent Carrier alternative to non-VOC Compliant solvents and petroleum distillates
 - Add to non-VOC compliant formulations to achieve compliancy

Typical Product Data

Viscosity	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
2cSt	0.873	0.48	75°C	-100°C	1.3900	0.00117	0.00026	18.7	2.45	350

Product Data (cont'd)

Boiling Point	Vapor Density (air = 1)	Vapor Pressure @ 25°C	Evaporation rate Butyl acetate = 1	Molecular weight
229°C	>1	1mmHg	<1	410

CAS Information

Identity	CAS #	%
Dodecamethylpentasiloxane	141-63-9	>90%
Decamethyltetrasiloxane	141-62-8	<10%
Octamethylcyclotetrasiloxane	556-67-2	<10%

Packaging

1-gallon pail.....	3.28kg
5-gallon pail.....	16.4kg
4 x 5-gallon pails	
55-gallon drum.....	170kg
Terms: F.O.B. Phila, PA U.S.A.	

For More Information, Contact:

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