



PSF-5cSt Dimethicone Fluid

Low Viscosity Silicone Fluid (CAS # 63148-62-9) INCI Name: Dimethicone



PSF-5cSt Dimethicone Fluid has a viscosity slightly higher than water.

PSF-5cSt Dimethicone Fluid is a cosmetic grade low viscosity Polydimethylsiloxane (CAS # 63148-62-9) that has a viscosity of 5cSt (centistokes) @ 25°C.

PSF-5cSt Dimethicone Fluid is characterized by its low viscosity (close to water), excellent lubricity, soft-emollient feel, low surface tension (high spreadability), and low pour point (-90°C). It is the lowest viscosity that will not evaporate at room temperature.

PSF-5cSt Dimethicone Fluid is used in a wide range of personal care products, providing a soft velvety feel when applied to both hair and skin. It provides a hydrophobic but breathable barrier to the skin (allows skin to perspire).

PSF-5cSt Dimethicone Fluid provides lubricity without greasiness, and prevents stickiness in skincare products. Its low surface tension allows the fluid to spread easily, and it is particularly effective when blended with Cyclomethicone fluids.

Specifications

Chemical Name	Polydimethylsiloxane
INCI/CTFA Name	Dimethicone
CAS #	63148-62-9
Appearance	Clear Liquid; Odorless & Tasteless
Viscosity Class	Low
Non-Flammable	Yes
Thermally Stable	Yes
Availability	1 – 5 – 55 gallon drums
NSN No's	NSN 9150-00-435-2712 NSN 9150-00-087-4046 NSN 9150-00-137-6343
Minimum Order	1-gallon

Features

- Excellent base fluid in cosmetic formulations
- Lowest viscosity that will not evaporate in an open system
- Excellent Lubrication
- Low Pour Point (-90°C)
- Low Surface Tension – High Spreadability
- Low V.T.C (little viscosity change at both high and low temperatures)
- Provides a soft, emollient feel to skin
- Prevents stickiness in skin care products
- Compatible with a wide range of solvents
- Hydrophobic: water repellent
- Inert: improves stability and shelf-life of formulations
- VOC exempt

Typical Product Data

Specific Gravity	Viscosity-Temp Coefficient	Flash Point	Pour Point	Refractive Index	Thermal Expansion cc/cc/°C 0-150°C	Thermal Conductivity @ 25C g/cal/cm/sec °C	Surface Tension	Dielectric Constant	Dielectric Strength
0.918	0.54	135°C	-90°C	1.3970	0.00109	0.00028	19.7	2.60	375

Product Data (cont'd)

Boiling Point	Vapor Density (air = 1)	Vapor Pressure @ 25°C	Max volatility, % wt loss @ 150°C	Molecular weight
>200°C	>1	<10mmHg	90%	770

Packaging:

1-gallon pail.....	3.45kg
5-gallon pail.....	17.25kg
4 x 5-gallon pails	
55-gallon drum.....	190kg
F.O.B. Phila, PA	

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