

PSF-10cSt Pure Silicone Fluid

Low Viscosity PDMS Silicone / Polydimethylsiloxane (CAS # 63148-62-9)



Pure Silicone Fluid 10cSt is a low viscosity 100% PDMS Silicone Oil with a viscosity slightly higher than water.

PSF-10cSt Pure Silicone Fluid is a low viscosity 100% linear PDMS Silicone Oil/ Polydimethylsiloxane (CAS # 63148-62-9) with a viscosity of 10cSt (centistokes) @ 25°C. The fluid is clear, colorless and odorless. PSF-10cSt does not contain additives or solvents.

PSF-10cSt Pure Silicone Fluid 10cSt is characterized by its low viscosity (close to water), wide service temperature range, low V.T.C. (little viscosity change at both low and high temperatures), excellent lubricity, low surface tension (high spreadability), high damping action (meets VV-D-1078 "Silicone as damping fluid"), high dielectric strength, and inertness to virtually all components.

PSF-10cSt is widely used as a bath fluid and heat transfer fluid due to its low viscosity and thermal properties. As a damping fluid, PSF-10cSt meets federal specification VV-D-1078 "Silicone as damping fluid. Unlike conventional petroleum based oils, PSF-10cSt has a low VTC (viscosity-temp coefficient). At both low and high temps, its viscosity does not change as acutely which makes it widely used as a damping fluid.

Due to its low surface tension, a primary application is as a vehicle or ingredient in cosmetic and personal care product formulations. PSF-10cSt offers high spreadability, low surface tension and subtle skin lubricity.

Other uses include: Damping Fluid, Low Temperature Bath Fluid, Heat Transfer Fluid, Rubber and Plastic lubricant, O-Ring lubricant, Dielectric Coolant

Specifications

Product code	PSF-10cSt
Chemical Family	PDMS Silicone Oil
Chemical Name	Polydimethylsiloxane
INCI Name	Dimethicone
CAS#	63148-62-9
Appearance	Clear Colorless and Odorless Liquid
Meets Federal Spec	VV-D-1078
Minimum Order	1-gallon (3.785 liters)

Features

- Low Viscosity
- Low Pour Point
- Excellent Lubrication for plastics and rubber
- Wide service temperature range
- Chemically Inert
- Low Surface Tension: High Spreadability
- Clear, Colorless, Odorless
- High Water Repellency
- High Dielectric Strength
- High Resistance to Oxidation

Typical Product Data

Viscosity @ 25°C	Specific Gravity	Refractive Index	Viscosity-Temp Coefficient	Pour Point	Flash Point closed cup	Boiling Point	Surface Tension dynes cm @ 25°C	Volatile content @ 70°C
10cSt	0.935	1.3990	0.56	-70°C	163°C	>200 °C	20.1	0.68%

Thermal Properties

Thermal Conductivity @ 50°C g cal/cm•sec• °C	Specific Heat @ 25°C cal/g °C	Thermal Expansion cc/cc °C
0.00032	0.360	0.00108

Dielectric Properties

Volume Resistivity	Dielectric constant 50Hz	Dielectric strength volts/mil
≥1	2.68	375

Packaging

1-gallon.....	3.52kg net wt.
5-gallon pail.....	17.6kg net wt.
55-gallon drum.....	190kg net wt.

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