



PSF-0.65cSt Silicone Damping Fluid

Lowest Viscosity linear Polydimethylsiloxane: HMDS Hexamethyldisiloxane (CAS#107-46-0)



PSF-0.65cSt Silicone Damping Fluid is Hexamethyldisiloxane (CAS# 107-46-0) with a viscosity of 0.65cSt @ 25°C.

PSF-0.65cSt Damping Fluid is a super-low viscosity linear Polydimethylsiloxane composed of Hexamethyldisiloxane (CAS#107-46-0). The fluid is clear, colorless and essentially odorless with a viscosity of 0.65cSt (centistokes) @ 25°C...thinner viscosity than water.

PSF-0.65cSt Damping Fluid is characterized by its low viscosity (lowest viscosity silicone oil), low pour point (-68°C), hydrophobic nature, low VTC (little viscosity change even at extremely low temperature), low surface tension, excellent lubrication, & fast rate of evaporation.

PSF-0.65cSt Damping Fluid is used in a wide range of military and industrial applications to dampen vibration, dampen pulsation, and dampen torque in liquid-filled gauges & instruments.

Due to its low viscosity and low pour point, PSF-0.65cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures. It is hydrophobic and prevents humidity from entering the gauge/instrument housing. This is very important. At low temperatures, water condensation can freeze and cause damage to the sensitive parts within the gauge/instrument housing.

Specifications

Product code	PSF-0.65cSt
Chemical Family	Polydimethylsiloxane
Chemical name	Hexamethyldisiloxane
CAS No.	107-46-0
Formula	C6H18OSi2
Synonym	HMDS
Appearance	Clear Liquid
Flammability	HMIS 4
Meets requirements NSN No.	NSN 9150-01-055-5995 NSN 9150-00-550-7000
Minimum Order	1 gallon (3.785L)

Features

- Dampen vibration in gauges, instruments, meters & instruments
- Protects internal components against vibration, freezing and corrosion.
- Extends service life of gauges, instruments, meters and avionic instruments.
- Excellent low service temperature range
- Low viscosity increases even at extremely low temperature (low V.T.C.)

Typical Product Data

Viscosity	Specific Gravity	Viscosity-temp coefficient	Flash Point	Pour Point	Refractive Index	Thermal Expansion cc/cc °C	Thermal conductivity g/ca/cm/sec °C	Surface Tension	Dielectric Constant	Dielectric Strength volts/mil
0.65cSt	0.761	0.31	-1°C	-68°C	1.3750	0.00134	0.00024	15.9	2.20	300

Product Data (cont'd)

Boiling Point	Vapor density	Vapor Pressure @ 25C	Evaporation Rate Butyl acetate = 1
100°C	>1	35mmHg	>1

CAS Information

HMDS HexamethyldisiloxaneCAS # 107-46-0

* Highly flammable liquid

Packaging

1-gallon * (3.785 liters).....	2.5kg net wt.
5-gallon pail (18.9 liters).....	14kg net wt.
* Performance Packaging for HAZMAT (air-ready) requires a drum (bung/plug or socket) wrench 1 1/12" to open.	
For both ground and air shipments, PSF-0.65cSt receives an additional HAZMAT charge	
55-gallon drum (208L).....	150kg net wt.
F.O.B. Phila, PA U.S.A.	

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