



PSF-0.65cSt Silicone Damping Fluid

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



HMDS Hexamethyldisioxane fluid is a VOC Exempt Fluid that is an excellent replacement for non-VOC compliant petroleum distillates and solvent carrying agents

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 a hydrophobic fluid that is characterized by its low viscosity (lowest viscosity), low pour point (-68°C), low VTC (little viscosity change even at extremely low temperature), low surface tension (high spreadability), excellent lubrication, high damping action and fast rate of evaporation.

PSF-0.65cSt Damping Fluid meets Federal Spec **VV-D-1078** "Silicone as Damping Fluid and **exhibits Newtonian behavior under shear**. It is used in a wide range of military and industrial liquid filled gauges, level controllers, rotary dampers, temperature and process recorders, control valves, calibration equipment, flow meters, thermostats, dashpots, monitoring systems avionic gauges and aviation instruments to dampen vibration, dampen pulsation, and dampen torque

PSF-0.65cSt Damping Fluid is particularly effective for use in instruments and gauges that will operate at extremely low temperatures (pour points is -68°C). 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. Ultimately, **Silicone Damping Fluids** will extend the service life of the equipment that it fills and provide more accurate readings even in the harshest of conditions.

Specifications

Product code	PSF-0.65cSt		
Chemical Family	Polydimethylsiloxane		
Chemical name	Hexamethyldisiloxane		
CAS No.	107-46-0		
Formula	C6H18OSi2		
Synonym	HMDS		
Annoaranco	Clear Liquid – Odorless &		
Appearance	Tasteless		
Flammability	HMIS 4		
Fodoral Cana	VV-D-1078 Silicone as		
Federal Spec	damping fluid		
Meets NSN No.	NSN 9150-01-055-5995		
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Minimum Order	1 gallon (2.8kg)		

Features

- Dampen vibration in gauges, instruments, meters and avionic 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 change at temperature (low V.T.C.)
- Inert to virtually all o-rings, gaskets, seals and valves *
- High Dielectric Strength

Typical Product Data

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

CAS Information

Hexamethyldisiloxane (100%)... CAS # 107-46-0

Packaging
1-gallon2.5kg net wt.
5-gallon pail14kg net wt.
55-gallon drum150kg net wt.
F.O.B. Phila, PA U.S.A.

For More Info, Contact: Clearco Products Co., Inc.

15 York Road Willow Grove, PA 19090 U.S.A.

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Email: info@clearcoproducts.com
Web: www.clearcoproducts.com

^{*} not recommended for Silicone O-rings due to possibility of swelling

^{*} Highly flammable liquid