

Pure Silicone Fluids (standard viscosities)

100% PDMS Silicone CAS # 63148-62-9 Viscosities: 50cSt, 100cSt, 1,000cSt

Pure Silicone Fluids are linear 100% Polydimethylsiloxane Fluids aka PDMS Silicone (CAS # 63148-62-9) that range in viscosity from 50cSt (centistokes) to 1,000cSt.

These fluids are characterized by their medium viscosity, wide service temperature range, low V.T.C. (little viscosity change at both low and high temps), high damping action (meet VV-D-1078 Silicone as damping fluid), excellent lubricity for rubber and plastics, high dielectric strength, high resistance to shear, and high resistance to oxidation.

Pure Silicone Fluids are compatible with virtually all o-rings, gaskets, valves and seals with the exception of silicone o-rings*.

Pure Silicone Fluids are Thermally Stable, showing excellent stability in low and high temperatures applications for long periods of time. They will remain stable in open system (presence of air) @ 150°C / 302°F. In closed systems, their service temperature is even higher.

Uses include: Damping Fluids, Bath Fluids, Heat Transfer Fluids, Hydraulic Fluids, Dielectric Fluids, Plastic & Rubber Lubricants, O-Ring Lubricants, gaskets lubricants, valve and seal lubricants.

**Silicone fluids can cause swelling in silicone o-rings.*

Synonyms: PDMS, Dimethyl fluids, polydimethylsiloxane, Dimethylpolysiloxane

Specifications

Chemical Name	Polydimethylsiloxane PDMS Silicone Oil
CAS #	63148-62-9
Appearance	Clear, colorless fluid
Federal spec met	VV-D-1078

Features

- Clear, colorless, odorless fluids
- Excellent Lubrication for plastic and rubber
- High Damping Action...meets VV-D-1078 "Silicone as damping fluid."
- Wide service temperature range -40°C to 150°C (open system), -40°C to 230°C (closed system)
- Excellent Thermal Stability
- High water repellency
- High oxidation resistance
- High dielectric strength
- High resistance to shear
- Inert lubricant for o-rings, gaskets, valves and seals.

Typical Product Data

Viscosity (cSt)	Specific Gravity	Refractive Index	Pour Point (°C)	Flash Point °F (open cup)	V.T.C	Surface Tension	Thermal Expansion (cc/cc/c 0-150°C)	Thermal Conductivity g cal/cm•sec• °C	Maximum Volatility @ 150°C (%wt)	Specific Heat BTU/lb. °F
50	0.960	1.402	-55°C	285°C	0.59	20.8	0.00106	0.00036	0.5	0.36
100	0.966	1.4030	-55°C	315°C	0.60	20.9	0.00096	0.00037	0.5	0.36
1,000	0.971	1.4035	-50°C	315°C	0.61	21.2	0.00096	0.00038	0.5	0.36

All types of Packaging available. Including but not limited to ...

8 oz. plastic dropper
1 pound "F" style
1 Quart "F" style
5 pound – double tight
5 pound – plastic pail
16 pound – plastic keg
55 gallon drum

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