

# PURE SILICONE FLUIDS (standard viscosities)



**CAS # 63148-62-9 Viscosities: 50cSt, 100cSt, 200cSt, 350cSt, 500cSt, 1,000cSt**



Pure Silicone Fluids are linear 100% polydimethylsiloxane fluids (CAS # 63148-62-9)

**Standard Viscosity Pure Silicone Fluids** are linear 100% Polydimethylsiloxane Fluids (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.

The 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) @ 170°C / 338°F. In closed systems, their service temperature is even higher.

Uses include: Damping Fluids, High Temperature Bath Fluids, Hydraulic Fluids, Dielectric Fluids, O-Ring Lubricants, Lubricants for gaskets, valves and seals.

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

Synonyms: PDMS, Dimethyl fluids, polydimethylsiloxane, Dimethylpolysiloxane

### Specifications

Chemical Name	Polydimethylsiloxane
CAS #	63148-62-9
Appearance	Clear, colorless fluid
Federal spec	VV-D-1078
Minimum Order	1-gallon

### Meet Specifications of following NSN No's

NSN 9150-00-664-0047	NSN 9150-00-851-4257
NSN 9150-00-024-9621	NSN 9150-00-024-9621
NSN 9150-00-664-0048	NSN 9150-00-261-8327
NSN 9150-00-269-8246	NSN 9150-01-056-9047
NSN 9150-00-404-3435	NSN 9150-00-024-9623
NSN 9150-00-584-3134	

### 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 170°C (open system), -40°C to 230°C (closed system)
- Excellent Thermal Stability
- Food Grade: 350 Centistokes viscosity only
- 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
200	0.968	1.4031	-50°C	315°C	0.60	21.0	0.00096	0.00037	0.5	0.36
350	0.970	1.4032	-50°C	315°C	0.60	21.1	0.00096	0.00037	0.5	0.36
500	0.971	1.4033	-50°C	315°C	0.60	21.1	0.00096	0.00038	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

### Packaging

1-gallon pail.....	3.6kg
5-gallon pail.....	18kg
4 x 5-gallon pails	
55-gallon drum.....	200kg
<b>F.O.B. Phila, PA 19135</b>	

### For More Information, Contact:

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