



PM-50 & PM-500 Phenylmethyl Silicone Fluids

Phenylmethylsiloxane Fluids – Excellent Hi & Lo-Temperature Stability (CAS # 63148-52-7)



PM Phenylmethyl Silicones exhibit extraordinary wide temperature performance.

PM-50 & PM-500 Phenylmethyl Silicone Fluids are low content phenylmethyl silicones [63148-52-7] (phenylmethylsiloxane) that are formulated for wide range thermal stability. Their phenylmethyl content is between 8 to 12%. These fluids are clear, colorless and odorless.

Low content phenylmethyl silicone fluids are characterized by their low pour points (-70°C), high flash points (>275°C), low VTC (viscosity-to-temperature coefficients), wide service temperature range, high damping action (meets VV-D-1078 “Silicone as damping fluid”), high dielectric strength, excellent lubricity and inertness to virtually all substrates.

With their wide service temperature range, PM-50 and PM-500 are an excellent choice for bath / heat transfer units operating anywhere from -60°C to 230°C. Unlike conventional fluids, PM-50 and PM-500 have low V.T.C (viscosity-temp coefficients). At low temps, their viscosities will not thicken significantly. This is critical; especially for circulating baths and baths that have pumping systems that cannot handle high viscosity fluids.

PM-50 and PM-500 meet Federal Specification **VV-D-1078 “Silicone as Damping Fluid”**. They reduce the vibration and amplitude of motion in order to obtain stable readings. PM-50 & 500 are used in a wide range of military, industrial and avionic gauges, meters, instruments, indicators, monitoring systems, and avionic gyroscopes.

In addition, Clearco Phenylmethyl Silicones exhibit higher oxidation resistance, greater thermal stability and better shear resistance than standard silicones.

Applications include: damping fluid, VV-D-1078 Silicone as damping fluid, hydraulic fluid, heat transfer fluid, high temperature fluid for gauges and instruments, dielectric coolant.

Specifications

Chemical Name	PhenylMethylsiloxane-Dimethylsiloxane
CAS No.	63148-52-7
Federal Spec	VV-D-1078 “Silicone as damping fluid
NSN No’s met	NSN 9150-00-823-8068
Appearance	Clear, colorless, odorless fluid
Non-Flammable	Yes

Features

- Wide service temperature range
- Meets VV-D-1078 Silicone as Damping Fluid
- Reduce vibration and amplitude for avionic gauges, meters, instruments indicators and Monitoring systems
- Meets NSN 9150-00-823-8068 (PM-500)
- Excellent Lubrication
- Low VTC Fluid ...little viscosity change at extreme temperatures
- Non-Flammable
- High Resistance to Oxidation
- High Damping Action
- High Dielectric Strength
- High resistance to shear
- Chemically inert

Typical Product Data

Product	Viscosity @ 25°C	Viscosity/Temp Coefficient	Pour Point °C	Gel Time, hours 250°C in Air	Specific Gravity	Refractive Index	Surface Tension	Dielectric Constant	Flashpoint °C	Ignition Temp °C
PM-50	50cSt	0.61	-70°C	220-260 hrs.	1.00	1.425	25.0	2.77	275°C	482°C
PM-500	500cSt	0.62	-70°C	180-200 hrs.	1.00	1.425	24.4	2.80	285°C	482°C

Packaging

1-gallon.....	3.785kg
5-gallon pail.....	18.8kg
F.O.B. Phila, PA U.S.A.	

For More Information, Contact:

Clearco Products Co., Inc.

3430 G. Progress Drive
Bensalem, PA 19020
U.S.A.

Tel: 215 639-2640

Fax: 215 639-2919

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com