



CLEARCO PM-50 & PM-500 Phenyl Methyl Silicones

Clear Fluid – Excellent Hi & Lo-Temperature Stability (CAS # 63148-52-7)



Clearco Phenylmethyl Silicones exhibit extraordinary wide temperature performance.

Clearco PM-50 & PM-500 are low content phenylmethyl silicones [63148-52-7] that are formulated for wide range thermal stability. Their phenylmethyl content is between 8 to 12%. Lower phenyl content silicones exhibit excellent low temp stability and will remain serviceable at -60C. They also exhibit higher temperature stability than standard dimethyl silicones, and are recommended as bath fluids for temperatures above 320°F / 160°C open system – the point at which dimethylpolysiloxanes start to break down and gel.

In addition, Clearco Phenylmethyl Silicones exhibit higher oxidation resistance, greater thermal stability and better shear resistance than standard silicones. Other applications include: Low Temp Damping Fluid –High Temperature Bath Fluid for laboratory research apparatus and instruments –Hydraulic Fluid – Heat Transfer Fluid – High temperature fluid for gauges, Dielectric coolant.

FEATURES

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| <ul style="list-style-type: none"> • High Temperature Serviceability • Low Temperature Stability • High Resistance to Shear • Non-flammable • High Oxidation resistance | <ul style="list-style-type: none"> • Excellent Thermal Stability • Chemically inert • Improved metal-to-metal lubricity • High Dielectric Strength • Dielectric Coolant |
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Specifications

Chemical Name	PhenylMethylsiloxane-Dimethylsiloxane
CAS #	63148-52-7
Appearance	Clear Liquid – Odorless & Tasteless
Odorless	Yes
Non-Flammable	Yes
Thermal Stability	Excellent
Packaging	10kg pails & 55-gallon drums (220kg)

Packaging

2.5 gallon (10kg)
55-gallon (200kg)

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
PMS-125	125	0.78	-51°C	1,000-1,400 hrs.	1.07	1.500	24.5	2.87	300-482°C	482°C

For More Information or To Request a Sample Contact:

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