



Clearco PPM-500 Phenylmethyl Silicone

500cSt Fluid (clear, super hi-temperature stability) Highest phenyl content [CAS# 9005-12-3]



Clearco PPM-500 has the highest thermal stability in our line.

Clearco PPM-500 PhenylMethyl Silicone is a clear, 100% silicone belonging to the phenyl silicone group, CAS# 9005-12-3.

Clearco PPM-500 Phenylmethyl is the highest phenyl content silicone fluid in our line, and exhibits much higher temperature stability than standard dimethyl silicones.

In open systems (presence of air), Clearco PPM-500 has a service temperature range that exceeds 250°C (1,500 to 2,000 hours). In closed systems (absence of air), it remains stable for thousands of hours at 315° +. (see below for gel times)

Due to its high temperature stability, Clearco PPM-500 is recommended as a hi-temp bath fluid for temperatures above 320°F / 160°C open system – the point at which dimethylpolysiloxanes start to break down and gel.

PPM-500 exhibits good radiation resistance, remaining serviceable up to 200 megarads exposure.

Refractive index is also much higher – 1.533. This enables it to match the refractive index of optical fibers and amorphous silica allowing “invisible” connections and transparent blends.

In addition, Clearco PPM-500cSt Silicone exhibits higher oxidation resistance, greater thermal stability, lower compressibility and better shear resistance than standard silicones. Other applications include: Damping Fluid –High Temperature Bath Fluid –Hydraulic Fluid – Mold Release Agent - Heat Transfer Fluid.

SPECIFICATIONS

Chemical Name	Poly (Phenylmethylsiloxane)
CAS #	9005-12-3 > 98%
Appearance	Clear, viscous liquid
Odorless	Yes
Non-Flammable	Yes
Thermal Stability	Excellent
Availability	10kg,
Minimum Order	10 kg

FEATURES

<ul style="list-style-type: none"> • High Thermal Resistance • Stability at 250°C (open system) • Stability at 315°C (closed system) • Excellent Lubrication • Non-Flammable • Good Resistance to Radiation • High Refractive Index 	<ul style="list-style-type: none"> • High Oxidation Resistance • High Shear Resistance • High Resistance to Oxidation • Excellent Low Temp Stability • Excellent metal-to-metal lubricity • Low Compressibility
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Typical Product Data

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 (COC)	Ignition Temp °C
500cSt	0.88	-20°C	1,500 to 2,000 hrs	1.11	1.533	28.5	2.95	300°C	487°C

For More Information, Contact:

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