PM-125 Phenylmethyl Silicone (phenylmethylsiloxane) is a high content phenylmethyl silicone CAS [63148-52-7] that is formulated for a wide range of high temperature applications. The fluid is clear, colorless and odorless with a viscosity of 125cSt (centistokes) @ 25°C.

PM-125 is characterized by its high thermal stability, high damping action (meets VV-D-1078 “Silicone as damping fluid”), high resistance to oxidation, enhanced shear resistance, excellent lubricity, high dielectric strength and inertness to virtually all substrates.

Its phenylmethyl content is between 48 to 52%. Due to the high phenyl content, PM-125 exhibits much higher temperature stability than standard dimethyl silicones and conventional bath fluids. In open systems (presence of air), PM-125 has a service temperature range that exceeds 250°C. In closed systems (absence of air), it remains stable for thousands of hours at 250°C+. (See below for gel times)

Applications include: High temperature Damping Fluid –High Temperature Bath Fluid –High Temperature Heat Transfer Fluid - Hydraulic Fluid

Features
- Excellent High Temp Performance
- Thermal Stability at 250°C open system
- Service range: –40°C to 230°C (open system) *
- High Oxidation Resistance
- Non-Flammable
- High Temperature bath fluid for laboratory research apparatus and instruments.
- High Dielectric strength –dielectric fluid in capacitors
- High Temperature heat transfer applications
- Lubricant for high temperature applications.
- High temperature Damping fluid.

*Note: viscosity will increase significantly at lower temperatures.

Typical Product Data

<table>
<thead>
<tr>
<th>Viscosity @ 25°C</th>
<th>Viscosity/Temp Coefficient</th>
<th>Pour Point °C</th>
<th>Gel Time, hours 250°C in Air</th>
<th>Specific Gravity</th>
<th>Refractive Index</th>
<th>Surface Tension</th>
<th>Dielectric Constant</th>
<th>Flashpoint °C</th>
<th>Ignition Temp °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>125</td>
<td>0.78</td>
<td>-51</td>
<td>1,000-1,400 hrs.</td>
<td>1.07</td>
<td>1.500</td>
<td>24.5</td>
<td>2.87</td>
<td>360-482</td>
<td>482</td>
</tr>
</tbody>
</table>

Specifications

| Chemical Name | Phenylmethylsiloxane-Dimethylsiloxane
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>CAS #</td>
<td>63148-52-7</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Liquid – Odorless &amp; Tasteless</td>
</tr>
<tr>
<td>Federal Spec</td>
<td>VV-D-1078 Silicone as damping fluid</td>
</tr>
<tr>
<td>Meets NSN No.</td>
<td>NSN 9150-00687-8339</td>
</tr>
<tr>
<td>Non-Flammable</td>
<td>Yes</td>
</tr>
<tr>
<td>Thermal Stability</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

Packaging

1-gallon…………………………………8.8 lbs / 4kg
5-gallon pail…………………………….44 lbs / 20kg
55-gallon drum………………………….485 lbs / 220kg
Terms: F.O.B. Phila, PA 19135

For More Information, Contact:
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