

**Clearco DPDM-100 Diphenyl-Dimethyl Silicone****Diphenyl –Dimethyl Silicone Bath Fluid...stability between –70°C to 250°C**

Clearco DPDM-100 Silicone Bath Fluid remains stable from –70C to 250C.

Clearco DPDM-100 Silicone is a clear, low Phenyl content silicone belonging to the phenyl silicone group. It is classified as a Dimethyl-Diphenylsiloxane Copolymer (CAS # 68083-14-7) and contains between 7 to 10% active Diphenylsiloxane content.

Clearco DPDM-100 exhibits much higher temperature stability than standard dimethyl silicones. In open systems (presence of air), Clearco DPDM-100 will remain stable at 250°C for 1,200 to 1,500 hours. In closed system, it exhibits higher thermal stability.

For baths that require stability at both high and low temperatures, it is an excellent fluid. DPDM-100 has a pour point of –70°C, enabling it to be a bath fluid for applications ranging from –70°C to 250°C

In addition, Clearco DPDM-100 Silicone exhibits higher oxidation resistance, greater thermal stability, and enhanced shear resistance than standard silicones. Other applications include: Low Temperature Damping Fluid –Low Temperature Bath Fluid - High Temperature Bath Fluid for lab instruments and apparatus–Hydraulic Fluid – Mold Release Agent - Heat Transfer Fluid. – Dielectric Fluid.

SPECIFICATIONS

| | |
|-------------------|-------------------------------------|
| Chemical Name | Diphenyl-Dimethylsiloxane |
| CAS # | 68083-14-7 |
| Appearance | Clear Liquid – Odorless & Tasteless |
| Odorless | Yes |
| Non-Flammable | Yes |
| Thermal Stability | Excellent |
| Minimum Order | 10-kg |
| Availability | 10-kg (2.5 gallons), 200-kg drums |

FEATURES

- Wide Temperature Range Bath Fluid: -70C to 250C
- Long term stability: -60 to 205C
- High Temp Performance
- Low Temp Stability
- Enhanced Lubrication
- Non-Flammable
- Enhanced Resistance to Shear
- High Oxidation Resistance

Typical Product Data For Clearco PM-100 Dimethyl-Diphenyl Silicone

| Viscosity @ 25°C | Viscosity/Temp Coefficient | Pour Point | Gel Time, hours 250°C in Air | Specific Gravity | Refractive Index | Surface Tension | Dielectric Constant | Flashpoint | Ignition Temp °C |
|------------------|----------------------------|------------|------------------------------|------------------|------------------|-----------------|---------------------|------------|------------------|
| 100 to 125 | 0.63 | -70°C | 1,200-1,500 hrs. | 0.99 | 1.436 | 22.8 | 2.78 | 280°C | 484°C |

**For More Information,
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