



## PolySi Technologies, Inc.

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### TECHNICAL DATA SHEET PST-850 Silicone Lubricant

**Description:**

PolySi Technologies' **PST-850** is a dimethylpolysiloxane silicone fluid used to improve lubricating characteristics under wide temperature operating conditions. Dimethylsiloxane polymers display an extraordinary combination of fluid properties. PST-850 possesses many characteristics suited for automotive environments.

- Excellent Thermooxidative Stability
- High Viscosity Index
- Essential nontoxic
- Nonbioactive
- Nonstinging to the skin

PST-850 is a dimethylpolysiloxane possessing excellent physical properties of silicone fluids.

<u>Typical Properties</u>	<u>Unit</u>	<u>Typical Value</u>
Appearance		Crystal Clear
Color, ALPHA		5
Viscosity		50 Centistokes(CST)
Acid Number		Trace
Melt Point		-41 C
Pour Point		-70 C
Flash Point		318 C
Surface Tension @ 25° C	dynes/cm	20.8
Specific Gravity at 25° C		0.960
Refractive Index, 25° C		1.4022
Coefficient of Expansion, cc/cc/C		0.00104
Dielectric Strength	volts/mil	400
Volume Resistivity at 25° C	ohm-cm	1.0 x 10 <sup>15</sup>
Volatile Content @ 150°C	%	0.3
Viscosity Temperature Coefficient		0.59
Coefficient of Expansion	cc/cc/°C	0.00104
Solubility Parameter		7.3
Solubility in Typical Solvents		
Chlorinated Solvents		High
Aromatic Solvents		High
Aliphatic Solvents		High
Dry Alcohols		Poor

Water  
Fluorinated Propellants

Poor  
High

**Toxicity**

PST-850 is not known to cause any harmful effects. Refer to our material safety data sheet for detailed safety information.

**Packaging**

PST-850 is available in 55 gallon drums, 5 gallon pails, or 1 gallon pails. **Special packaging available upon request.**

**Certifications**

Meets the requirements for FDA 175.300