



PolySi® G-MAN® Lubricants

Division of PolySi® Technologies



Technical Data Sheet

PST-841 **100,000 cSt** **Silicone Fluid**

FEATURES

- High dielectric strength
- High viscosity index
- Essentially inert and non-toxic
- Excellent weather resistance, water repellent
- Dielectric properties
- Excellent Thermooxidative Stability
- High dampening action
- Essential nontoxic and nonbioactive
- Nonstinging to the skin
- Soluble in a wide range of solvents

COMPOSITION

- High-viscosity dimethicone fluid
- Linear polydimethylsiloxane polymers typically have the following typical chemical composition:
 $(\text{CH}_3)_3\text{SiO}[\text{SiO}(\text{CH}_3)_2]_n\text{Si}(\text{CH}_3)_3$

APPLICATIONS

- For foam control and lubrication improvements in automotive and industrial applications

STORAGE

Has a usable life of 60 months from the date of manufacture when stored in original container at below 40°C (104°F)

CERTIFICATIONS

Meets the requirements for

- FDA 175.300 Lubricants for Incidental Food Contact.
- Mil VV-D-1078

DESCRIPTION

PST-841 Silicone Fluid is a 100,000 cSt dimethylpolysiloxane silicone fluid used to improve lubricating characteristics under wide temperature operating conditions. It provides effective foam control with extremely small increments. Possesses many characteristics suited for automotive environments and industrial applications.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact PolySi® Technologies for assistance in preparing a specification.

<u>Property</u>	<u>Typical Value</u>
Color	Clear
Viscosity, (cSt)	100,000
Acid Number, BCP	Trace
Melt Point °C (°F) ^{1,2}	-23°C
Pour Point °C (°F)	-33°C (-27°F)
Flash Point, Open Cup °C (°F)	>326°C (618°F)
Viscosity-temperature coefficient	0.62
Specific Gravity at 25°C (77°F), g/cm ³	0.977
Refractive Index at 25°C (77°F)	1.4037
Volatility 24 hours @ 150°C	0.30
Coefficient of Expansion cc/cc/°C	0.00096
Dielectric Strength at 25°C (77°F), volts/mil	375
Volume Resistivity at 25°C (77°F), ohm-cm	1.0 x 10 ¹⁵

¹ The melt point temperature is a typical value and may vary somewhat due to molecular distribution (especially 50 cSt). If the melting point is critical to your application, then several lots should be thoroughly evaluated

² Due to different rates of cooling, this test method may yield pour points lower than the temperature at which these fluids would melt.

LIMITATIONS

PST-841 is not known to cause any harmful effects. Refer to our Material Safety Data Sheet for detailed safety information.

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection or food use.

PACKAGING

PST-841 is available in 55 gallon drums, 5 gallon pails, or 2 oz tubes.

Special packaging and private labeling is available upon request.

PolySi® Technologies, Inc

5108 Rex McLeod Drive
Sanford, NC 27330
Phone: 919.775.4989
Fax: 919.775.2460

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www.polysi.com

polysi@polysi.com

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