

Silicone Fluids

rev. 12-2016

FEATURES

- **High viscosity index**
- **Excellent thermooxidative stability**
- **Essentially nontoxic and nonbioactive**
- **nonstinging to the skin**
- **comparable to Xiameter PMX-200**

COMPOSITION

Dimethyl polysiloxane fluid

APPLICATIONS

Cosmetic ingredient
Elastomer and plastics lubricant
Electrical insulating fluid
Foam preventative or breaker
Household product ingredient
Mechanical fluid
Mold release agent
Personal care product ingredient
Mechanical fluid
Mold release agent
Polish ingredient
Specialty chemical product ingredient
Specialty cleaner ingredient
Surface active agent

STORAGE

Has a usable life of 48 months from the date of manufacture when stored in original container at below 40°C (104°F)

LIMITATIONS

JIT Silicone Fluid is not known to cause any harmful effects. Refer to 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.

PACKAGING

JIT Silicone Fluid is available in 55 gallon drums, 5 gallon pails, or 1 gallon pails. Special packaging and private labeling available.

JIT Silicone Fluids are dimethylpolysiloxane silicone fluids used to improve lubricating characteristics under wide temperature operating conditions. Dimethylsiloxane polymers display an extraordinary combination of fluid properties including excellent thermooxidative stability, high viscosity index, essential nontoxic and nonbioactive and nonstinging to the skin.

TYPICAL PROPERTIES

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

	50cs	100cs	200cs	350cs	500cs	1000cs
As Supplied						
Appearance	Crystal clear liquid from suspended matter and sediment					
Specific Gravity 25C	.960	.964	.967	.968	.969	.970
Refractive index at 25C	1.402	1.403	1.403	1.403	1.403	1.403
Color, APHA	5	5	5	5	5	5
Flash Point, open cup C (F)	318(605)	>326(>620)	>326(>620)	>326(>620)	>326(>620)	>326(>620)
Acid Number, BCP	trace	trace	trace	trace	trace	trace
Melt Point C (F)	-41(-42)	-28(-18)	-27 (-17)	-26(-15)	-26(-15)	-25(-13)
Pour Point C (F)	-70(-94)	-65(-85)	-65(-85)	-65(-85)	-50(-58)	-50(-58)
Surface Tension 25C (dynes/cm)	20.8	20.9	21.0	21.1	21.1	21.2
Volatile content 150C (%)	0.3	0.02	0.07	0.09	0.15	0.11
Viscosity Temp Coefficient	0.59	0.60	0.60	0.60	0.60	0.61
Coefficient of Expansion cc/cc/degrees C	.00104	.00096	.00096	.00096	.00096	.00096
Thermal Conductivity 50C g cal/cm *sec*degreesC	---	0.00037	----	0.00038	----	0.00038
Specific Heat at 25C, cal/g C	---	0.352	----	0.350	----	0.349
Solubility in Typical Solvents						
Chlorinated Solvents	high	high	high	high	high	high
Aromatic Solvents	high	high	high	high	high	high
Aliphatic Solvents	high	high	high	high	high	high
Dry alcohols	poor	poor	poor	poor	poor	poor
Water	poor	poor	poor	poor	poor	poor
Fluorinated propellants	high	high	high	high	high	high
Dielectric Strength at 25C volts/mil	400	400	400	400	400	400
Volume Resistivity at 25C ohms-cm	1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵

Linear polydimethylsiloxane polymers characteristically have the following typical chemical composition:



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