Silicone Fluids

rev. 09-2025

FEATURES

- **High viscosity index**
- **Excellent thermo-oxidative stability**
- **Essentially nontoxic and non-bioactive**
- **non-stinging 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 or food use.

PACKAGING

JIT Silicone Fluid is available in 55 gallon drums & 5 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 thermo-oxidative stability, high viscosity index, essential nontoxic and non-bioactive and non-stinging 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.

Property	Unit	Result	
As Supplied		100,000 cSt	300,000 cSt
Appearance		Crystal Clear	Crystal Clear
Specific Gravity at 25C (77F)		0.977	0.977
Refractive Index at 25C (77F)		1.4037	1.4037
Color, APHA			5
Flash Point, Open Cup	C (F)	>326 (>620)	>321 (>609.8)
Acid Number, BCP		trace	trace
Melt Point [1,2]	C (F)	-23 (-9)	NA
Pour Point	C (F)	-33 (-27)	
Surface Tension at 25C (77F)	dynes/cm	---	---
Volatile Content at 150C (302F)	%	0.30	0.30
Viscosity Stabiilty at 25C (77F)	% change	-2.4	
Viscosity Temperature Coefficent		0.61	0.61
Coefficient of Expansion	cc/cc/C	.0.00096	0.00096
Thermal Conductivity at 50C (122F)	g cal/ cm*sec*C	0.00038	
Solubility Parameter [3]		7.4	
Solubility in typical solvents			
Chlorinated Solvents		High	High
Aromatic Solvents		High	High
Aliphatic Solvents		High	High
Dry Alcohols		Poor	Poor
Water		Poor	Poor

1. The melt point temperature is a typical value and may vary somewhat due to molecular distribution. 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.
3. Fedors Method: R.F. Fedors, *Polymer Engineering and Science*, Feb. 1974.
N/A = Not applicable

JIT Silicones +

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