Product Data _____ Polyether Modified Silicone Fluid TSF4446

TSF4446 is a copolymer of a polydimethylsiloxane and a polyoxyalkylene ether. This product is an alcohol soluble silicone fluid that provides dispersible capability in water-alcohol mixture. TSF4446 acts as a leveling agent and/or anti-blocking agent for paint applications.

KEY FEATURES

- Dispersible in water/alcohol mixture solution
- Provides anti-blocking, slippery and/or leveling effect for paints applications

APPLICATIONS

• Paint additives for lubricity, anti-blocking properties, leveling improvement

TYPICAL PROPERTY DATA

PROPERTIES		
Appearance		Clear to pale yellow
Viscosity (25°C)	mm²/s { cSt }	1,400 {1,400}
Specific gravity (25°C)		1.02
Refractive index (n _D ²⁵)		1.424
Flash point	°C	222
Freezing Point	°C	-10
HLB		5
Cloud Point (1.0% aqueous solution)	°C	Insoluble
Polyether		Polyethylene oxide

Typical property data values should not be used as specifications.

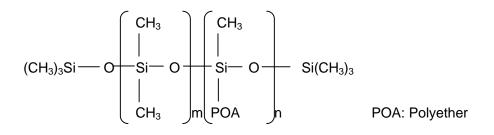
SILICONE FLUID	DYNAMIC FRICTION COEFFICIENT (25°C)
TSF4446	0.16
TSF4440	0.14
TSF4445	0.14
TSF4450	0.15
TSF4452	0.15
TSF4460	0.14
TSF410	0.11
TSF451-50	0.29
TSF451-100	0.29
TSF451-300	0.29

FRICTION COEFFICIENT OF SILICONE FLUID^{*}

* SODA pendulum type friction tester

Pressure exerted on oil film: Max 1,100MPa {111kgf/mm²}, Min 730MPa {74kgf/mm²}

CHEMICAL STRUCTURE



SOLUBILITY

Soluble	Toluene, Mineral sprits, Ethanol, Acetone, Methyl ethyl ketone, IPA, Methyl cellosolve, Ethyl acetate, IPA/Water (75/25)	
Dispersible	Ethanol/Water (50/50), Polyethylene glycol, n-Hexane	
Insoluble	Ethylene glycol, Glycerin, Liquid paraffin, Water, Dimethyl silicone fluid	

HANDLING AND SAFETY

- Wear eye protection and protective gloves as required while handling the product
- Use the product in a well ventilated area.

STORAGE

- Store in cool, dry place out of direct sunlight.
- Keep out of the reach of children.

PACKAGING

- 1kg can available in case of 10
- 15kg can available
- 180kg drum available

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