

FL-1000 Fluorosilicone Oil

Trifluoropropylmethyl siloxane, trimethyl-terminated (CAS# 63148-56-1)



PROPERTIES:

- High chemical resistance
- Insoluble in chlorinated solvents
- Resistant to chemicals and oxidation

FL-1000 Fluorosilicone Oil is a low molecular weight 100% Trifluoropropylmethyl siloxane, trimethyl-terminated (CAS# 63148-56-1) with a viscosity of 1,000cSt @ 25°C. In comparison to conventional PDMS silicone oil, FL-1000 Fluorosilicone Oil offers much higher oil and solvent resistance. It is insoluble in chlorinated solvents, aliphatic solvents and aromatic solvent. As such, it is widely used as a solvent antifoaming in the chemical and petroleum industries.

FL-1000 Fluorosilicone Oil is soluble in ketones, low MW esters and ethers. FL-1000 Fluorosilicone can be used at 100% concentration or can be diluted in one of the components of the foaming system. If predilution is needed/preferred, FL-1000 can be diluted in the following range of solvents:

- Acetone
- Cellosolve acetate
- Ethyl methyl ketone
- Isobuty methyl ketone
- Trichlorofluoromethane

Typical Product Data

Item	Value
Appearance	Colorless to light-yellow transparent liquid
Viscosity @ 25°C	1,000cSt
Specific Gravity	1.28
Freezing Point	< -47°C
Flash Point	> 300°C
Refractive Index @ 25°C	1.381
Service Temperature	-40°C to 204°C

Applications Include:

- Solvent Antifoaming in chemical and petroleum industries
- Limits foam height in processing equipment
- Suitable for foam control in solvent systems
- Base fluid for solvent resistant grease formulations
- Lubricating fluid for bearings
- Oil & Gas separation

Viscosity to Temperature

Viscosity @ temperature	
@ -18°C.....	20,000cSt (mm2/sec)
@ 25°C.....	1,000cSt (mm2/sec)
@ 100°C.....	.69cSt (mm2/sec)
@ 204°C.....	10.3cSt (mm2/sec)

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