



Silfluo LS-610

Hexamethyldisiloxane (MM)

Description

Silfluo LS-610 is Hexamethyldisiloxane (MM, HMDSO), a linear disiloxane with two trimethylsilyl end groups. The molecule contains two Si - O - Si connected trimethylsilyl units; no hydrolyzable groups are present. The trimethylsilyl end groups function as chain terminators in silicone polymer synthesis, controlling molecular weight by capping silanol chain ends.

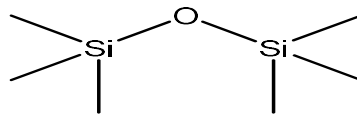
High volatility, low surface tension, and zero residue on evaporation make it suited for precision cleaning, CVD precursor, and carrier fluid applications.

Used as end-capping agent (MM) in silicone polymer synthesis, PECVD precursor for SiO₂ film deposition, precision electronic cleaning solvent, and non-polar reaction medium.

Typical Physical Properties

Silfluo Code:	LS-610
Chemical Name:	Hexamethyldisiloxane
Synonyms	HMDSO; MM;
CAS No. :	107-46-0
EINECS No. :	203-492-7
Molecular Weight:	162.38
Appearance:	Colorless clear liquid
Purity (by GC, %)	99.0 min
Silanol:	≤1.0%
Density (ρ _{20°C} , g/cm ³)	0.762-0.77 0
Refractive Index (n _{25.D})	1.3765-1.3785
Boiling Point:	100°C
Flash Point:	-1 °C Closed Cup

Chemical Structure:



Applications

1. Silicone polymer end-capping (MM)

Used as chain terminator in polymerization of silicone fluids, resins, and elastomers to control molecular weight and viscosity.

2. PECVD precursor

Used as volatile precursor in plasma-enhanced CVD processes for SiO₂ insulating film deposition in

Technical Data Sheet



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semiconductor manufacturing.

3. Precision electronic cleaning and photolithography

Used as residue-free cleaning solvent for semiconductor wafers, microelectronic equipment, and photoresist adhesion promoter carrier.

4. Pharmaceutical and analytical chemistry

Used as non-polar reaction medium, extraction solvent, and GC reference standard.

5. Mold release and surface treatment carrier

Used as carrier fluid in mold release agents and hydrophobic surface treatment formulations.

Packaging

In 150 or 160.kg drum

Safety and Storage

Store in a cool, dry place away from direct sunlight and all ignition sources. Keep containers tightly sealed.

Shipped as hazardous substance — Class 3 highly flammable liquid.

Shelf life: 12 months minimum from manufacture date in original unopened containers.