# Technical Data Sheet

**ChangFu® MS-SH**

(Mercaptopropyl)methylsiloxane-Dimethylsiloxane Copolymers

**Description**

ChangFu® MS-SH is a silicon compound that has unique reactivity and functionality by introducing a sulfur(-SH) group on the polysiloxane side chain. It retains the original stability, weather resistance and chemical resistance of polysiloxane. The presence of sulfur groups makes polysiloxanes more polar and improves their compatibility with polar materials. In addition, the sulfhydryl group can undergo addition reaction with unsaturated bonds, complex with metal ions, thus endowing the compound with more functionalities.

**Features & Benefits**

Has good stability, weather resistance and chemical resistance.
Strong reactivity with other materials in the presence of the sulfur functional group.
Low surface tension and viscosity, easy to spread and penetrate the surface of the materials.
Has good lubricity and mold release performance.

**Applications**

Used in the manufacture of special coatings for semiconductors with good adhesion to silicon, ceramics, copper, and other materials.
Used to accelerate the vulcanization rate and improve the poor viscosity of Polymorphic vulcanized silicone rubber.
Used in combination with vinyl silicone fluids to prepare light-curing optical fiber coatings.
Used to prepare paper or plastic film release agents that do not need heating and baking.
Used with its strong adsorption capacity to produce release agents, hair fixing agents and fabric finishing agents.

**Typical Properties**

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|---|---|
| Description | (Mercaptopropyl)methylsiloxane-Dimethylsiloxane Copolymers |
| Product No. | ChangFu® MS-SH |
| Appearance | Colorless to light yellow clear liquid |
| Viscosity | 200cst; 300cst |
| Thiol Equivalent | 1900g/mol; 3000 g/mol |

**Package**

Offered in 25L pails and 200L drums.
Custom packaging is available.

**Storage**

Stored in a cool, well-ventilated place.
Keep container tightly closed.

**Transportation**

See the corresponding Safety Data Sheet.