

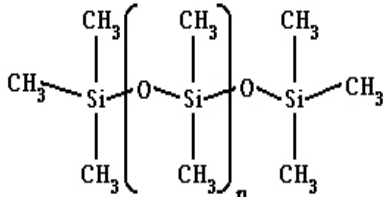


Technical Data Sheet

SILICONE FLUIDS (SS SF-)

APPLICATIONS

- Polishes (High gloss for automobile and furniture)
- Release agent (Plastic / rubber/ non-ferrous die casting)
- Heat Transfer
- Power Transmission
- Rust Prevention
- Hydraulic Fluids
- Dielectric Fluids
- Repellency for aerated cement slabs/bricks
- Paint and Coating Additives
- Lubricants
- Textile Finishing
- Thread Lubricants



Polydimethylsiloxane

In chemical structure Dimethyl silicone fluids are having a backbone of silicon-oxygen linkage. The advantage of this, a linkage much stronger than a typical carbon-carbon chain and is more resistant to attack by temperature extremes, oxidation, shear stresses and chemicals than other similar organic fluids and also show good dielectric properties.

PACKAGING

50 Kg & 200 Kg

HDPE Carboys & Drums

SHELF LIFE

24 months in the original container.

DESCRIPTION:

SS-SF is Silicone fluids in various viscosities having unique combination of properties, which give superior performance in a variety of applications. They are clear, colorless, odorless and inert Dimethyl Polysiloxane. These fluids are manufactured in the viscosity range from 20 cps to 60000 cps. Intermediate viscosity grades are also available upon request.

SS-SF Silicone fluids are soluble in chlorinated hydrocarbon solvents and aromatic solvents. They have limited solubility in other solvents (Solubility here depending on viscosity).

If required, Supreme Silicones will provide emulsification process along with emulsifier.

TYPICAL PROPERTIES

Product Name	Appearance	Viscosity cps @ 25°C	Volatile % @ 150 °C, 1 hr	R.I @ 25°C	Flash Pt. Open Cup (°C)	Specific Gravity @ 25°C
SF - 20	Clear	18-22	< 5	1.405	> 150	0.96-0.98
SF - 100	Color	90-110	< 2		> 180	0.96-0.98
SF - 350	Less	335-365	< 2	To	> 220	0.96-0.98
SF- 1000	Liquid	900-1100	< 2	1.409	> 210	0.96-0.98
SF - 60K		55K-65K	< 2	> 200	0.96-0.98	

UNIQUE PROPERTIES

- 1. LOW VISCOSITY / TEMPERATURE COEFFICIENT:** They exhibit a smaller degree of change over a wider temperature range than petroleum oils
- 2. THERMAL STABILITY:** Silicone fluids show excellent stability when exposed to high temperatures. They are stable from -40°C to 200°C for extended periods and can exceed this for short periods.
- 3. OXIDATION STABILITY:** The oxidation stability of these fluids is excellent up to 200°C where slugging is eliminated that occurs with mineral oils above 150°C.
- 4. CHEMICAL INERTNESS:** They are chemically inert to most common materials.
- 5. LOW FLAMMABILITY:** Flash point is in the range of 250°C to 300°C and auto ignition temperature is ranging from 438°C to 460°C.
- 6. LOW SURFACE TENSION:** It have unusually low surface tensions that provide easy and efficient spreading, high surface activity and low internal cohesive energies.
- 7. SHEAR STABILITY:** The shear stability of such fluids can be as much as twenty times that of quality petroleum oils.
- 8. DIELECTRIC PROPERTIES:** Electrical grade silicone fluids offer excellent dielectric properties that are maintained for prolonged periods, even under adverse operating conditions.

STORAGE & HANDLING

It is recommended that normal safety precautions be taken while handling the product. The material should be stored in original containers in a cool place and protected from direct exposure to sunlight.

LIMITATIONS

These products are neither tested nor represented as suitable for medical or pharmaceutical uses.

The information provided to the customers in this data sheet is intended as a guideline and is provided in good faith. Changes may occur from system to system as methods of use and conditions are beyond our control, hence **users are requested to evaluate the recommendations before actual application to get desired performance.** Supreme Silicone's sole warranty is that the product will meet the Supreme Silicone's sales specifications in effect at the time of shipment. Supreme Silicones specifically disclaims any other express or implied warranty of fitness. Supreme Silicones disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.