

Product Data

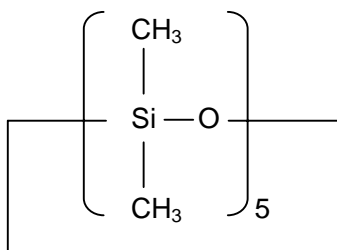
Cyclic Dimethyl Siloxane SF1202

SF1202 silicone fluid is a volatile, low viscosity cyclic dimethyl siloxane. It evaporates readily without a residue or cooling sensation. SF1202 is non-polar and insoluble in water. It is completely miscible in the lower alcohols, and several organic ingredients. It is easy to use due to low viscosity and good organic compatibility with perceivable benefits in skin care and hair care applications. It also can be used as carriers providing a uniform deposition of high molecular weight dimethicone, dimethicone copolyol, trimethylsiloxysilicate, dimethicone/vinyl dimethicone crosspolymer, and cetearyl dimethicone/vinyl dimethicone crosspolymer.

INCI NAME

Cyclopentasiloxane

STRUCTURAL FORMULA



KEY PERFORMANCE PROPERTIES

- ◆ Volatility
- ◆ Spreadability
- ◆ Lubricity
- ◆ Compatible with many organic materials and solvents
- ◆ Low surface tension and viscosity

KEY PRODUCT BENEFITS

- ◆ No oily residue
- ◆ Improves efficacy of antiperspirants
- ◆ Dry non-greasy feel
- ◆ Improves wet combing

- ◆ Greater flexibility in formulating cosmetic products
- ◆ Rapid and complete coating during particle treatment

APPLICATIONS

- ◆ Antiperspirants
- ◆ Skin care products
- ◆ Sunscreen products
- ◆ Hair conditioners
- ◆ Facial make-up
- ◆ Particle treatment

TYPICAL PROPERTY DATA

PROPERTIES		
Appearance		Colorless, transparent
Viscosity (25°C)	mm ² /s {cSt}	4.0 {4.0}
Boiling Point	°C	210
Flash Point	°C	76
Refractive Index (n _D ²⁵)		1.396
Specific Gravity (25°C)		0.955
Freezing Point	°C	-40
Surface tension (25°C)	mN/m {dyn/cm}	20.8 {20.8}
Molecular weight		370.77
CAS No.		541-02-6

Typical property data values should not be used as specifications.

SOLUBILITY DATA

SOLVENT TYPE	MATERIAL	SOLUBILITY
Highly Polar	Water	I
Hydrocarbon Solvents	Aliphatic	S
	Aromatic	S
Hydrocarbon & Vegetable Oils	Mineral Oil 65/75 SUS	S
	Mineral Oil 200/2100 SUS	S
	Petrolatum	SH
	Cottonseed (Gossypium) Oil	S
	Castor (Ricinus Communis) Oil	PS
	Sunflower (Helianthus Annuus) Seed Oil	S
	Maleated Soybean Oil	S
Wheat (Triticum Vulgare) Germ Oil	S	
Alcohols	Cetyl Alcohol	SH
	Ethanol 95%	S
	SD Alcohol 40	S
	Isopropyl Alcohol	S

	2-Ethyl-Hexanol	S
	Lauryl Alcohol	S
	Stearyl Alcohol	SH
	Ethylene Glycol	PS
	Propylene Glycol	PS
	Glycerin	PS
Esters	Isopropyl Palmitate	S
	Isopropyl Myristate	S
	Myristyl Propionate	S
	PPG-2 Myristyl Ether Propionate	S
Silicones	Dimethicone (SF96-350)	S
	Cyclopentasiloxane (SF1202)	S
	Diisostearyl Trimethylolpropane Siloxy Silicate (SF1318)	S
	Phenyl Trimethicone (SF1550)	S
Waxes	Paraffin	SH
	Ozokerite	SH
	Candelilla (Euphorbia Cerifera) Wax	SH
	Beeswax	SH
	Carnauba (Copernicia Cerifera) Wax	SH
Sunscreens	Octyl Dimethyl PABA	S
	Benzophenone-3	I
	Octyl Methoxycinnamate	S
	Octyl Salicylate	S
Pigments	D& C Orange No. 5	I
	D& C Red No. 21	I
	Iron Oxides	I
Lanolin	Lanolin	SH
Other	Tocopheryl Acetate	S

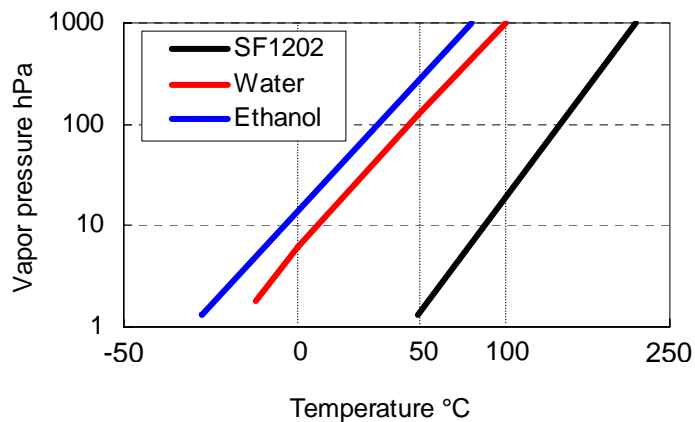
I = Insoluble less than 1% by weight

PS = Partially Soluble 1-10% by weight

S = Soluble at 10% or higher

SH = Soluble hot at 10% or higher

VAPOR PRESSURE DATA



HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves as required when handling the product.
- ◆ Maintain adequate ventilation in the work place at all time.

STORAGE

- ◆ Store in a dark, cool place out of direct sunlight.
- ◆ Keep out of the reach of children.

PACKAGING

- ◆ 1kg can available in cases of 10
- ◆ 15kg can available
- ◆ 420LB (191kg) drum available

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