

## SR1000

SR1000 , SS4230, SS4267

### INCI Names

SS4230 Cyclopentasiloxane (and) Trimethylsiloxysilicate

SS4267 Dimethicone (and) Trimethylsiloxysilicate

SR1000 Trimethylsiloxysilicate

### Product Description

SR1000, SS4230, and SS4267 are silicone resin products. These highly durable materials provide excellent water repellency and resistance to detergent wash off. The resins are available in three different forms to offer formulation flexibility.

SR1000 powder is a 100% silicone resin. It is soluble in a number of silicone and organic fluids (see solubility chart).

SS4230 fluid is a blend of silicone resin and cyclopentasiloxane.

SS4267 fluid is a blend of silicone resin and 50 centistoke dimethicone fluid.

### Key Features and Typical Benefits

	SR1000	SS4230	SS4267
Highly Substantive	X	X	X
Resistant to Water/Detergent Wash-off	X	X	X
Excellent Film Former	X	X	X
Smooth Non-Tacky Feel	X	X	X
Reduces Whitening or Soap Effect in Lotions	-	-	X

Fast Dry Time due to Volatile Carrier	-	x	-
Versatility of Carrier Choice	x	-	-

#### Typical Properties

Property	SR1000	SS4230	SS4267
Viscosity (cSt) @ 25°C	-	70-200	300-700
% Resin	100	45	35
Appearance	White Powder	Clear Liquid	Clear Liquid
Specific Gravity @ 25/25°C	-	1.05	1.04
Particle Size (microns)	20-100	-	-
Bulk Density (lbs/gal)	2.5	-	-

#### SOLUBILITY DATA

**Key: I = Insoluble at < 1% by weight**

**PS = Partially Soluble at > 1% but < 10% by weight**

**S = Soluble at > 10% in all portions**

**SH = Soluble Hot at > 10% in all portions**

<b>Solvent Type</b>	<b>Material</b>	<b>SR1000</b>	<b>SS4230</b>	<b>SS4267</b>
Highly Polar	Water	I	I	I
Hydrocarbon Solvents	Aliphatic	S	S	S
	Aromatic	S	S	S
Hydrocarbon & Vegetable Oils	Mineral Oil 65/75 SUS	I	I	I
	Mineral Oil 220/210 SUS	I	I	I
	Petrolatum	I	I	I
	Cottonseed (Gossypium) Oil	I	I	I
	Castor (Ricinus Communis) Oil	I	I	I
	Sunflower (Helianthus Annus) Seed Oil	I	I	I
	Maleated Soybean Oil	I	I	I
	Wheat (Triticum Vulgare) Germ Oil	I	I	I

<b>Alcohols &amp; Glycols</b>	<b>Cetyl Alcohol</b>	<b>SH</b>	<b>SH</b>	<b>SH</b>
	Ethanol (95%)	I	I	I
	SD Alcohol 40	I	I	I
	Isopropyl Alcohol	S	S	I
	2-Ethyl-Hexanol	PS	PS	PS
	Lauryl Alcohol	I	PS	PS
	Stearyl Alcohol	SH	SH	SH
	Ethylene Glycol	SH	PSH	I
	Propylene Glycol	I	I	I
	Glycerin	I	I	I
<b>Esters</b>	Isopropyl Palmitate	S	S	S
	Isopropyl Myristate	S	S	S
	Myristyl Propionate	S	S	S
	PPG-2 Myristyl Ether Propionate	S	S	S
<b>Silicones</b>	Dimethicone (SF96-350)	S	S	S
	Cyclopentasiloxane (SF1202)	S	S	S
	Diisostearoyl Trimethylpropane Siloxy Silicate (SF1318)	I	I	I
	Phenyl Trimethicone (SF1550)	S	S	S

Waxes	Paraffin	I	I	I
	Ozokerite	I	I	I
	Candelilla (Euphorbia Cerifera) Wax	I	I	I
	Beeswax	I	I	I
	Carnuba (Copernicia Cerifera) Wax	I	I	I
Sunscreens	Octyl Dimethyl PABA	I	I	I
	Benzophenone-3	I	I	PS
	Octyl Methoxycinnamate	SH	S	I
Pigments	D& C Orange No. 5	NA	I	I
	D& C Red No. 21	NA	I	I
	Iron Oxides	NA	I	I
Lanolin	Lanolin	I	I	I
Other	Tocopheryl Acetate	SH	S	I

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### Potential Applications

- Protective Skin Products
- Sunscreen Products
- Facial Make-up
- Lotions and Creams
- Color Cosmetics

General instructions for use

SR1000: Pre-mix SR1000 with a solvent of your choice until completely dissolved. Good solvents are low viscosity Dimethicone or Cyclopentasiloxane. Add pre-mix to the oil phase of your formulation.

SS4230 & SS4267: as these resins are already dissolved in Cyclopentasiloxane or Dimethicone respectively for your convenience they can be added directly to the oil phase of your formulation.

Recommended usage level:

SR1000: 1-15%

SS4230:1-15%

SS4267:1-15%

### **Patent Status**

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### **Product Safety, Handling and Storage**

The warranty period is 12 months from date of shipment from Momentive Performance Materials if stored in original unopened container at a temperature below 25°C (77°F).

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### **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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