

SF1642

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INCI NAME

C30-45 Alkyl Dimethicone

Description

SF1642 silicone alkyl copolymer is a high melting point, linear polysiloxane functionalized with C30-45 alkyl group. It is designed for use in sun care, skin care and color cosmetic applications. The unique structure gives rise to superior compatibility with both silicones and organics, thus SF1642 silicone alkyl copolymer is an effective coupler for silicone and organic phases. SF1642 silicone alkyl copolymer also functions as a thickening agent for both oil-in-water and water-in-oil emulsions. Additionally, it offers excellent lubricity and skin feel.

Key Features and Benefits

- Excellent lubricity
- Smooth-silky feel
- Thickening agent
- Compatibility with organic ingredients
- Compatibilizing agent for silicones and organic ingredients

Typical Properties

Properties	Value
Appearance	Pastille
Color, Gardner	< 2

Melting Point, °C(°F)	60-70(140-158)
Density @ 25°C, (lb/gal)	7.35
Flash Point, °C(°F)	> 100 (>212)

Solubility data

Key

I = Insoluble at < 1%

IH = Insoluble Hot at < 1%

PSH = Partially Soluble Hot at 1-10% by weight

SH = Soluble Hot at 10% or higher

DH = Dispersible Hot at 90%

Solvent Type	Material	SF1642
Highly Polar	Water	IH
Hydrocarbon Solvents	Aliphatic	SH
	Aromatic	SH
Hydrocarbon & Vegetable Oils	Mineral Oil 65/75 SUS	SH
	Mineral Oil 220/210 SUS	SH
	Petrolatum	SH
	Cottonseed (Gossypium) Oil	SH
	Castor (Ricinus Communis) Oil	IH
	Sunflower (Helianthus Annuus) Seed Oil	PSH
	Maleated Soybean Oil	PSH
	Wheat (Triticum Vulgare) Germ Oil	IH
	Hydrogenated Polyisobutene	SH
	Isododecane	SH

Alcohols & Glycols	Cetyl Alcohol	SH
	Ethanol	I
	SD Alcohol 40	I
	Isopropanol	I
	2-Ethyl-Hexanol	SH
	Lauryl Alcohol	SH
	Stearyl Alcohol	SH
	Propylene Glycol	PSH
	Glycerin	IH
Esters	Isopropyl Palmitate	SH
	Isopropyl Myristate	SH
	Myristyl Propionate	SH
	PPG-2 Myristyl Ether Propionate	SH
	Caprylic/Capric Triglyceride	SH
	C12-15 Alkyl Benzoate	SH
Silicones	Dimethicone (SF96-350)	PSH
	Cyclopentasiloxane (SF1202)	SH
	Cyclopentasiloxane (and) Trimethylsiloxysilicate (SS4230)	SH
	Diisostearoyl Trimethylolpropane Siloxy Silicate (SF1318)	PSH
	Phenyl Trimethicone (SF1550)	SH
	Dimethicone Copolyol (SF1288)	PSH

Waxes	Paraffin	SH
	Ozokerite	SH
	Candelilla (Euphorbia Cerifera) Wax	SH
	Beeswax	SH
	Carnauba (Copernicia Cerifera) Wax	SH
Sunscreens	Benzophenone-3	IH
	Octyl Methoxycinnamate	PSH
	Octyl Salicylate	SH
	Octocrylene	IH
Pigments	Titanium Dioxide	DH
	Iron Oxides	DH
	D& C Red No. 21	DH
Lanolin	Lanolin	SH
Others	Tocopheryl Acetate	SH

Potential Applications

- Skin Creams and Lotions
- Sun Care Products
- Color Cosmetics
- Stick Products

General Instructions for Use

SF1642 is added to the Oil or Silicone phase.

SF1642 must be hot processed.

Suggested Use Levels: 1-5%

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions

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

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
Brazil		Europe	China
+1 800 295 2392	+55 11 4534 9650	+390510924300	800 820 0202
Toll free*	Direct Number	Direct number	Toll free
+704 805 6946			+86 21 3860 4892
Direct Number			Direct number
Mexico		India, Middle East & Africa	Japan
+52 55 2169 7670		+ 91 44 71212207	+81 3 5544 3111
Direct Number		Direct number*	Direct number
*All American countries		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

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