

SF1214

SF1214

Specialty Silicone Gum/Fluid Blend

Product: SF1214 is a blend of a high molecular weight silicone

Description: polymer, dispersed in cyclic silicones. The cyclic silicone acts as a carrier, spreading the high molecular weight silicone uniformly across a surface, then volatilizing to leave a thin film of silicone. This product offers a number of performance attributes for personal care products, especially a unique smooth, velvety, non-greasy feel.

INCI NAME

Cyclopentasiloxane (and) Dimethicone

Key Performance: Skin Care

Properties

- Imparts a smooth, velvety, non-greasy feel
- Imparts a durable film
- Provides excellent emolliency
- Improves spreadability and rub-in

Hair Care

- Provides excellent wet and dry combing
- Improves softness
- Enhances shine
- Provides improved manageability and conditioning

Applications

- Protective Skin Products
- Sun Screen Products
- Facial Make-Up
- Lotion
- Color Cosmetics
- Hair Conditioners
- Cuticle Laminants



SILYCOM.MX

Miguel Hidalgo S/N INT 9
San Nicolas Tolentino, Méx. C.P. 50230



sfsilycom@hotmail.com

www.silycom.com

722 481 3280

722 303 5323

FORMULATIONS

Product formulations appearing in this product data sheet are included as illustrative examples only.

Typical Product Data

Property	SF1214
Silicone Content, %	100
Viscosity @ 25°C, cSt	4000-8000
Acidity	5 ppm Max
Weight Loss, %	85
Appearance	Clear Liquid
Flash Point, closed cup, °C (°F)	76.7 (170)
Specific Gravity, 25°C	0.95

Typical Product SOLUBILITY CHART

Data

Key: S = Soluble I = Insoluble

Solvent Type	Material	SF1214
Highly Polar	Water	I
Hydrocarbon Solvents	Aliphatic	S
	Aromatic	S
Hydrocarbon & Vegetable Oils	Mineral Oil 65/75 SUS	I
	Mineral Oil 220/210 SUS	I
	Petrolatum	I
	Cottonseed (Gossypium) Oil	I
	Castor (Ricinus Communis) Oil	I
	Sunflower (Helianthus Annuus) Seed Oil	I
	Maleated Soybean Oil	I
	Wheat (Triticum Vulgare) Germ Oil	I
	Cetyl Alcohol	I
	SD Alcohol 40	I
	Isopropyl Alcohol	I
	2-Ethyl-Hexanol	I
	Lauryl Alcohol	I
	Stearyl Alcohol	I
Alcohols & Glycols		



SILYCOM.MX

Miguel Hidalgo S/N INT 9
San Nicolas Tolentino, Méx. C.P. 50230



sfsilycom@hotmail.com
www.silycom.com
722 481 3280
722 303 5323

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

Specifications

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Silycom
SF1214 is a trademark of Silycom



Instructions for Use

FORMULATING WITH SF1214

SP115 Moisturing Eye Gel

Ingredients	Part/Wt (%)	Function
PART A		
Deionized Water	88.64	Diluent
Disodium EDTA	0.03	Chelating agent
Citric Acid (10% solution)	0.04	pH adjustment
Carbomer (1)	0.40	Gelling agent
PART B		
Butylene Glycol	2.00	Humectant
Glycerin (96%)	3.50	Humectant
Panthenol	0.30	Moisturizer/Provitamin B
PART C		
Phenyl Trimethicone (SF1550) (2)	0.35	Non-oily emollient
Cyclopentasiloxane (and) Dimethicone (SF1214) (2)	3.00	Breathable barrier, smooth, silky feel
PART D		
Sodium Hydroxide (10% solution)	1.60	Neutralizer
PART E		
DMDM Hydantoin (and) Iodopropynyl Butylcarbamate	0.15	Preservative

Procedure

1. Meter water of Part A into appropriate vessel. Add Disodium EDTA and citric acid to the water and mix with propeller agitation until dissolved. With moderate propeller agitation, slowly add carbomer and when dissolved, mix an additional 20 minutes.
2. Add ingredients of Part B to Part A with moderate propeller agitation.
3. Add Part C to Part AB in order listed with moderate propeller agitation. Mix 20-30 minutes with moderate agitation.
4. Add Part D to batch with sweep agitation and adjust pH to 7.2 +/- 0.1. With sweep agitation, add Part E and mix for 30 minutes.



SILYCOM.MX

Miguel Hidalgo S/N INT 9
San Nicolas Tolentino, Méx. C.P. 50230



sfsilycom@hotmail.com
www.silycom.com
722 481 3280
722 303 5323