

CareSil
The chemistry of care



PRODUCT GUIDE

For the first time, skin care companies have access to medical-quality silicone to create breakthrough moisturization, anti-aging, sun care, skin repair serums and anti-wrinkle formulations.

The CareSil[®] portfolio includes novel encapsulation technology, silicone gels, phenyl silicones, low volatility silicones, custom silicone formulations and the delivery of actives for use in next-generation skin care products. Available in a variety of concentrations in various diluents, viscosities and refractive indices, CareSil's silicone product line is innovative and diverse to match your specific needs and requirements.

Visit www.nusil.com/caresil to learn more about our product offering and future innovations.

KEY PRODUCTS

Encapsulation Technology

NuSil is pushing the boundaries of cosmetic formulating with our breakthrough encapsulation technology. This novel platform allows silicone and water to coexist without the use of irritating surfactants. The separation of these two mediums, enabled by encapsulation, allows for transformative textures when applied to the skin. Once again, CareSil brings the wow factor back to silicones.

Unprecedented Levels of Purity

NuSil incorporates controls to remove impurities at every step of the manufacturing process. We carefully select our raw materials and our proprietary purification technology produces the most refined intermediates and the purest silicones with the lowest volatility levels in the industry.

	Encapsulation Technology		Elastomer Gels			Gum Blends		Volatiles	Specialty Fluids				
CareSil Nomenclature	CARESIL - CES CES - 1104	CARESIL - CES CES - 3401	CARESIL - XG CXG - 1101	CARESIL - XG CXG - 1103	CARESIL - XG CXG - 1104	CARESIL - F CSF - 3503	CARESIL - F CSF - 3504	CARESIL - V CSV - 3002	CARESIL - PF CPF - 3200	CARESIL - PF CPF - 3300	CARESIL - FF CFF - 3400	CARESIL - FF CFF - 3401	CARESIL - FF CFF - 3402
Product Description	Encapsulated Silicone with 12% CXG-1104	Encapsulated Silicone with 40% CFF-3401	12% Solids Elastomer Gel Dispersed in D5	8% Solids Elastomer Gel Dispersed in D5 and D6	12% Solids Elastomer Gel Dispersed in Low Viscosity Dimethicone Fluid	50% High Purity Dimethiconol Dispersed in D5	50% High Purity Dimethiconol Dispersed in Low Viscosity Dimethicone Fluid	Pure Volatile Silicone Gas Chromatography: (D4): <0.05% (D5): <0.05% (D6): >99.5%	5.5 Mol% Phenyl Silicone	High Refractive Index Silicone Fluid	100 Mol% Fluorosilicone	60 Mol% Fluorosilicone	20 Mol% Fluorosilicone
INCI Nomenclature	Dimethicone (and) Aqua (and) Glycerin (and) Pentylene Glycol (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Phenoxyethanol (and) Carbomer (and) Amodimethicone (and) Sodium Hydroxide (and) Disodium EDTA	Trifluoropropyl Dimethicone (and) Aqua (and) Glycerin (and) Pentylene Glycol (and) Phenoxyethanol (and) Carbomer (and) Amodimethicone (and) Sodium Hydroxide (and) Disodium EDTA	Cyclopentasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Cyclopentasiloxane (and) Cyclohexasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Dimethicone (and) Vinyl Dimethicone Crosspolymer	Cyclopentasiloxane (and) Dimethiconol	Dimethicone (and) Dimethiconol	Cyclohexasiloxane	Diphenyl Dimethicone	Phenyl Trimethicone	Trifluoropropyl Methicone	Trifluoropropyl Dimethicone	Trifluoropropyl Dimethicone
D4 Content	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	-	<0.3%	-	-	<0.05%	<0.05%
Viscosity	60,000 cP	60,000 cP	550,000 cP	60,000 cP	635,000 cP	1,400,000 cP	1,140,000 cP	7 cSt	Available in: 350, 1,000 and 10,000 cP	Available in: 20 and 40 cSt	Available in: 350, 1,000 and 12,500 cP	Available in: 350, 1,000 and 12,500 cP	Available in: 350, 1,000 and 12,500 cP
Appearance	Translucent, Colorless Gel	Translucent, Colorless Gel	Clear, Colorless Gel	Clear, Colorless Gel	Clear, Colorless Gel	Clear, Colorless Paste	Clear, Colorless Paste	Clear, Colorless Fluid	Clear, Colorless Fluid	Clear, Colorless Fluid	Clear, Colorless Fluid	Clear, Colorless Fluid	Clear, Colorless Fluid
Refractive Index	1.40	1.38	1.40	1.40	1.40	1.40	1.40	1.40	1.43	1.46	1.38	1.38	1.40
Specific Gravity	1.03	1.01	0.92	0.96	0.89	0.96	0.93	0.97	1.00	1.00	1.27	1.22	1.11

This document is a general guideline for product selection. Typical properties shown in this document should not be used as a basis for preparing specifications. Please contact NuSil Technology LLC for assistance and recommendations in establishing particular specifications. NuSil Technology makes no claim or warrant that this product is intended to affect the structure or any function of the human body.

KEY PRODUCTS

Additional Products

If you don't find what you are looking for we have many additional products in our formulation library and can customize infinitely more based on your unique requirements.

Product Details

For more detailed information on the products in this guide and the complete range of CareSil silicones, please visit:

www.nusil.com/caresilproducts

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Surfactants

CareSil Nomenclature	CARESIL - S CSS - 7300	CARESIL - S CSS - 7301	CARESIL - S CSS - 7302
Product Description	10% High Molecular Weight Silicone Polyether in Decamethyl-cyclopentasiloxane	Silicone Polyether Copolymer	Silicone Polyether Copolymer
INCI Nomenclature	PEG/PPG – 18/18 Dimethicone (and) Cyclopentasiloxane	PEG-12 Dimethicone	PEG-10 Dimethicone
Viscosity	33 cSt	259 cSt	898 cSt
Appearance	Translucent, Colorless Fluid	Clear, Colorless Fluid	Clear, Colorless Fluid
Refractive Index	1.40	1.45	1.42
Specific Gravity	0.96	1.06	1.01

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