

avantor™



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 surfactant-free-silicone emulsion technology, silicone gels, gum blend, 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, the CareSil™ silicone product line is innovative and diverse to match your specific needs and requirements.

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Visit [www.caresil.com](http://www.caresil.com) to learn more about our product offering and future innovations.

# KEY PRODUCTS

## Surfactant-Free-Silicone (SFS) Emulsion Technology

CareSil™ SFS allows silicone and water to coexist without the use of irritating surfactants. The separation of these two mediums, enabled by encapsulation or suspension technologies, allow for transformative textures when applied to the skin.

## Unprecedented Levels of Purity

CareSil™ 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.

## Product Details

For more detailed information on the products in this guide please visit:

[www.nusil.com/caresilproducts](http://www.nusil.com/caresilproducts)

|                       | Encapsulation Technology  | Suspension Technology   |   |
|-----------------------|---|---|---|
| CareSil™ Nomenclature | <b>CARESIL™ - CES<br/>CES - 1104</b>  | <b>CARESIL™ - CSG<br/>CSG - 1001</b>  | <b>CARESIL™ - XG<br/>CXG - 1101</b>                                 |
| Product Description   | Encapsulated Silicone with 12% CXG-1104   | Suspended Silicone with 30% CXG-1104 and 7% CSF-3504  | 12% Solids Elastomer Gel Dispersed in D5                            |
| 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 | Aqua (and) Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Dimethiconol (and) Butylene Glycol (and) Carbomer (and) Phenoxyethanol (and) Sodium Hydroxide | Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer |
| D4 Content            | <0.05%  | <0.05%  | <0.05%  |
| Viscosity             | 60,000 cP   | 165,000 cP  | 550,000 cP  |
| Appearance            | Translucent to Opaque, Colorless to Yellow Tint, Gel  | Opaque, White Gel   | Clear, Colorless to Light Yellow, Gel                               |
| Refractive Index      | 1.40  | 1.40  | 1.40  |
| Specific Gravity      | 1.03  | 0.98  | 0.96  |

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.

| Elastomer Gels  | Gum Blend   | Volatiles   |  |
|---|---|---|--|
| <b>CARESIL™ - XG<br/>CXG - 1103</b>   | <b>CARESIL™ - XG<br/>CXG - 1104</b>                                   | <b>CARESIL™ - F<br/>CSF - 3504</b>  | <b>CARESIL™ - V<br/>CSV - 3002</b>   |
| 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 Low Viscosity Dimethicone Fluid | Pure Volatile Silicone Gas Chromatography:<br>(D4): <0.05%<br>(D5): <0.05%<br>(D6): >99.5% |
| Cyclopentasiloxane (and) Cyclohexasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer | Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer          | Dimethicone (and) Dimethiconol  | Cyclohexasiloxane  |
| <0.05%  | <0.05%  | <0.05%  | <0.05%   |
| 60,000 cP   | 635,000 cP  | 1,140,000 cP  | 7cSt   |
| Clear, Colorless, Gel   | Clear, Colorless to Light Yellow, Gel                                 | Clear to Translucent, Colorless to Light Yellow, Paste                    | Clear, Colorless, Liquid   |
| 1.40  | 1.40  | 1.40  | 1.40   |
| 0.95  | 0.92  | 0.94  | 0.97   |

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