

StrataGel 171

INCI Name (s):

Cyclopentasiloxane, Dimethicone, C30-45 Olefin, Phenyl Methicone, Stearoxytrimethylsilane

Product Description

Silicone gels are generally composed of a variety of materials that provide certain tactile, visual and optical properties. However, the materials used to create these gels also possess certain properties that can cause challenges in making a product that is uniform, stable and easy to use. **StrataGel 171** was created to provide exceptional quality while improving formulation characteristics of this class of materials. The stability and consistency of **StrataGel 171** helps it to behave as a predictable formulation element, reducing the processing and stabilization difficulties normally associated with silicone gels.

StrataGel 171 can be described as an interwoven polymeric network. This material improves the structure of cosmetic formulations by enveloping other formulation elements into its matrix. **StrataGel 171** works within the formulation to help create a well distributed and well balanced system. **StrataGel 171** spreads smoothly, provides shorter mobility, a cushiony texture and matte appearance, while increasing suspension characteristics.

Applications

Anhydrous Make Up/Skin Care, Emulsion Products (Water in Oil, Oil in Water, Water in Silicone, Silicone in Water), Sun Care, Hair Care, Cleansing Products

Product Specifications

Properties	StrataGel 171	Methods
Appearance	Clear Gel	Physical
Odor	Characteristic	Physical
Specific Gravity @ 25°	0.94—0.99	RIC 851
Viscosity	16,000—80,000 cps	RVT#7 @20rpm @25°C RIC 651

Formulation Guidelines

StrataGel 171 can be used in cationic, anionic or nonionic environments. **StrataGel 171** should be added to the oil phase of a formulation at a temperature of 65—85°C and mixed until homogeneous. **StrataGel 171** is stable at a pH range of 4—10. When mixing in pigmented systems, wet the pigment using **StrataGel 171** at 10% the weight of the pigment. Silicone pigments work best. To increase suspension characteristics, use cyclomethicone or phenyl trimethicone treated bentonite clay. The recommended usage level of **StrataGel 171** is 3% to the desired effect.

The formulation guidelines presented here are designed to provide only basic insights into the properties of the materials discussed. We offer formulation support as needed.



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