

ViscUp™ 160

Makes Clear, Colorless Gels Seem Effortless



INCI Name: Mineral Oil and Hydrogenated Styrene/Butadiene Copolymer
SAP Code#: 136830

Key Product Attributes

- Clear, colorless gel
- Film-former
- Shine enhancer
- Gelling/Thickening agent

Background Information

ViscUp™ 160 is a mineral oil gel based on a proprietary polymer, suitable for skin and hair care applications. ViscUp™ 160 has a demonstrated ability as a gelling agent, to boost the viscosity of mineral oil. Typically, mineral oil is a difficult material to gel and most thickeners used give a hazy finished product. ViscUp™ 160, however, gives a clear, colorless gel. It is an efficacious, cost effective gelling agent, that is very effective in applications where drip control is desirable.

Formulating Tips

When oil is thickened using ViscUp™ 160, the oil should be added to the gel gradually and stirred well between additions. This will ensure even distribution of the gel in the oil, and avoid lump formation. Slow stirring will avoid the formation of air bubbles (in the case of a high viscosity end-product). This should be done preferably cold mix, but the gel can be heated.

If ViscUp™ 160 has to be heated, the temperature should be kept below 176° F (80° C) using indirect heat.

ViscUp™ 160 can be used in a variety of skin and hair care applications and in lip gloss.

Efficacy

Mineral Oil Viscosity Study

To evaluate the gelling properties of ViscUp™ 160 on mineral oil, the two products were mixed together in different proportions and their viscosities were recorded. The graph below shows the resulting viscosities of ViscUp™ 160 at weight concentrations of 0, 10, 30, 50, 70 and 90

ViscUp™ 160 / Mineral Oil Viscosity Study

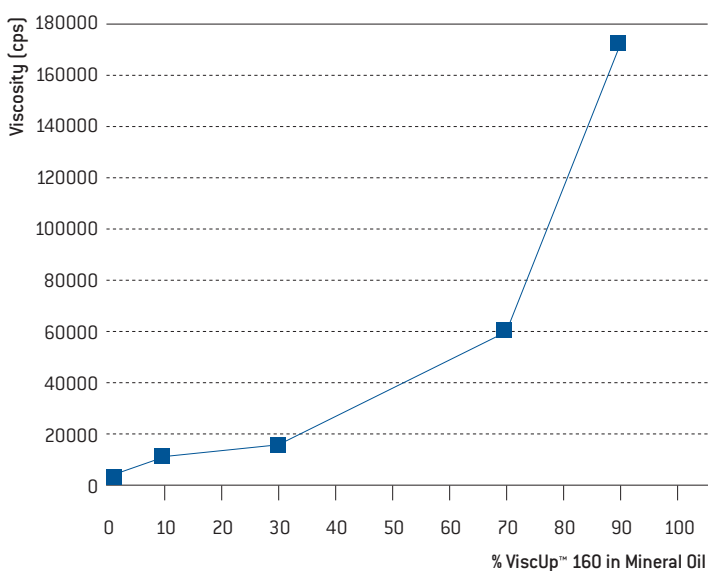


Fig. 1.

ViscUp™ Solubility			
Solvent	A	B	C
Sweet Almond Oil	S	S	S
Soybean Oil	S	IS	IS
Marula Oil	S	S	IS
Dimethicone	D	IS	IS
Cyclomethicone	D	D	IS
Dimethiconol	D	D	D
Phenyletrimethicone	S	IS	IS
Ethylhexyl Palmitate	S	S	S
C12-15 Alkyl Benzoate	S	S	S
Capric/Caprylic Triglyceride	S	D	IS
Ethylhexyl Methoxycinnamate	S	S	IS
Benzophenone 3	D	D	NA
Ethanol	IS	IS	IS

A = 90% Solvent: 10% ViscUp™ 160
 B = 50% Solvent: 50% ViscUp™ 160
 C = 10% Solvent: 90% ViscUp™ 160

D = Dispersible (hazy)
 S = Soluble
 IS = Insoluble
 NA = Not Possible

Typical Properties	
Appearance	Clear colorless gel
Viscosity, cps @ 25°C	145,000 – 175,000 cps
Odor	Odorless
Recommended Use Level	5–10%

Toxicological Testing Review	
Epi-Derm	Non-Irritating
Epi-Ocular	Non-Irritating
RIPT	Non-Primary Irritant Non-Primary Sensitizer

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