PERSONAL CARE

DOWSIL™ ES-5700 Formulation Aid

High dispersing capabilities for fine powders in various carriers

Consumers understand that protecting their skin from the damaging effects of the sun is crucial to prevent sunburn and keep their skin looking flawless. They recognize the importance of a higher SPF and they want it delivered with other performance benefits they enjoy.

The unique structure of DOWSIL™ ES-5700 allows the sunscreen to be evenly dispersed on the skin with reduced white residue making all the difference. For use in a wide range of personal care applications such as color cosmetics, skin care and sun care, this high preforming dispersant is an ideal choice for formulators.

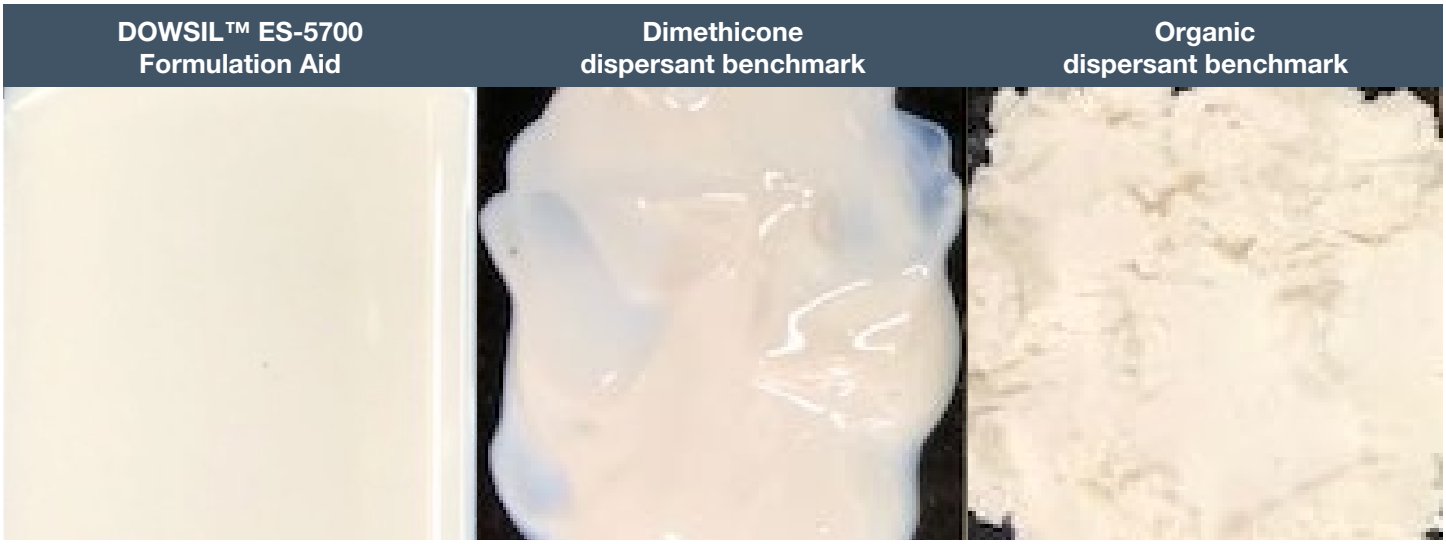
INCI name	Cetyl Diglyceryl Tris(Trimethylsiloxy)silylethyl Dimethicone
Appearance	Colorless to light brown, transparent to translucent liquid at 25°C
Viscosity	700-1200 mm2/s
HLB	2.5 (calculated value[1])
Active Content	100%
D4/D5/D6 Level	<0.1%

*These are typical properties, not to be construed as specifications
1. HLB calculated with IOB (Inorganic-Organic Balance) value

Benefits

- High dispersing capability for fine particles
- Low viscosity stable dispersion
- Broad carrier options for formulation flexibility
- Good optical performance
- High SPF & PA value
- Optimal UV absorption & high transparency
- Reduced white residue
- Improved color intensity
- Even color tone
- Non-GMO and does not contain ingredients of animal origin.

High dispersing capability for fine particles



DOWSIL™ ES-5700 Formulation Aid can make lower viscosity, uniform dispersion when compared with other commercial products.

Formulation inspiration

Glow My Way SPF Primer (CPF 4564)

Anhydrous skin primer for dark skin tones with zinc oxide UV filters and SPF 34 (in vivo)

Phase	Trade name / Supplier	INCI name	% Wt.
A	DOWSIL™ EL-TIPS Silicone Elastomer Blend / Dow	C13-15 Alkane (and) Dimethicone / Vinyl Dimethicone Crosspolymer	31.00
B	ZNO-660SS-11S5 / Kobo	Zinc Oxide (and) Triethoxycaprylylsilane	18.07
	DIM2F50TRR / Kobo	Dimethicone (and) CI 77491 (and) PEG-9 Polydimethylsiloxethyl Dimethicone (and) Hydrogen Dimethicone (and) Polyclycerl-4 Isostearate (and) Cetyl PEG/PPG-10/1 Dimethicone (and) Hexyl Laurate	0.87
	ACT96-B-77499 / Miyoshi	CI 77499 (and) Disodium Stearoyl Glutamate (and) Aluminum Dimyristate (and) Triethoxycaprylylsilane	0.40
	SunSpheres™ BIO SPF Booster / Dow	Microcrystalline Cellulose	1.50
	DOWSIL™ ES-5700 Formulation Aid / Dow	Cetyl Diglyceryl Tris(Trimethylsiloxy)silylethyl Dimethicone	1.50
	Isododecane / Making Cosmetics	Isododecane	16.66
C	Isododecane / Making Cosmetics	Isododecane	30.00

Processing instructions:

1. Mix Phase B ingredients.
2. Add Phase B to Phase A and mix.
3. Add Phase C as desired to adjust texture of formula.

Learn more

For more information about DOWSIL™ ES-5700 Formulation Aid, such as sample formulations, please contact your customer service representative or visit **www.dow.com/virtual/beautyexperience.**

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