



Technical Data Sheet

DOWSIL™ ES-5700 Formulation Aid

INCI Name: Cetyl Diglyceryl Tris(Trimethylsiloxy)silylethyl Dimethicone

Features & Benefits

- High dispersing capability for fine powders and pigments
- High oil flexibility
- Good optical performance
- High SPF & PA value
- Reduced white residue
- Improved color intensity
- Even color tone
- No PEG/PPG functionalities

Composition

- Silicone diglycerol

Applications

- Dispersant facilitating and stabilizing high-loading of fine inorganic particles and pigments
- Dispersant enabling to accommodate a broad range of dispersion media such as silicone fluids, organic oils and their blends
- Can be used in a wide range of personal care applications such as
 - Color cosmetics
 - Sun care

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Colorless to light brown, transparent to translucent liquid at 25°C
Viscosity	mm ² /s	700–1,200
HLB		2.5 (calculated value ¹)
Active Content	%	100
D4/D5/D6 Level	%	< 0.1

1. HLB calculated with IOB (Inorganic-Organic Balance) value

Description	DOWSIL™ ES-5700 Formulation Aid is a highly efficient, silicone dispersant with diglycerol hydrophilic functionality. Stable and highly concentrated powder dispersions prepared by using DOWSIL™ ES-5700 Formulation Aid will contribute to enhance sensory feel of the final formulation.
How to Use	The recommended addition level of DOWSIL™ ES-5700 Formulation Aid is 10% for 50% of fine particle titanium dioxide in various carrier fluids. Stable fine particle dispersion can be prepared by high shear mixing such as provided by beads mill equipment.
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health and Environmental Information	<p>To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.</p> <p>For further information, please see our website, dow.com or consult your local Dow representative.</p>
Disposal Considerations	<p>Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.</p> <p>It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.</p>
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