



Technical Data Sheet

DOWSIL™ ES-5226 DM Formulation Aid

INCI Name: Dimethicone (and) PEG/PPG-18/18 Dimethicone

Features & Benefits

- Rake-type silicone polyether
- 37.5% dispersion of silicone polyether in a low viscosity, volatile dimethicone fluid
- Silicone emulsifier
- Low to medium viscosity emulsions can be achieved
- Ease of use
- Cold or hot processing

Applications

- Silicone emulsifier designed to prepare low to medium viscosity water-in-silicone emulsions
- Can be used in a wide range of cosmetic applications such as:
 - Color Cosmetics
 - Skin Care
 - Sun Care
 - Antiperspirants and Deodorants

Typical Properties

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

Test ¹	Property	Unit	Result
	Appearance		Grey white to milky white liquid
CTM 0004A	Viscosity	mm ² /s	1000–8000
CTM 0001A	Specific gravity		0.91
CTM 0021A	Flash point – closed cup	°C	78
CTM 208 BK	Non-volatile content	%	35–40
	Cyclotetrasiloxane (D4) content	%	< 0.1
	Cyclopentasiloxane (D5) content	%	< 0.1

1. CTM: Corporate Test Method, copies of CTMs are available on request

Description

DOWSIL™ ES-5226 DM Formulation Aid is an ethoxylated and propoxylated silicone surfactant.

Its primary function is to produce water-in-silicone emulsions with textures ranging from lotion to cream.

DOWSIL™ ES-5226 DM Formulation Aid is a 37.5% dispersion of silicone polyether in a low viscosity, volatile dimethicone fluid.

How to Use

Stable emulsions can be prepared by adding slowly the water phase to the silicone phase using a variety of common mixing devices.

The silicone phase should be prepared first by mixing DOWSIL™ ES 5226 DM Formulation Aid with the selected silicone oils.

High shear mixing at the end of the emulsification process is recommended to increase stability of the emulsion.

The recommended addition level goes from 3% for high W/Si-oil ratios and up to 12% for lower W/Si-oil ratios.

**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 CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**Usable Life and
Storage**

When stored at or below 25°C in the original unopened containers, this product has a usable life of 540 days from the date of production.

**Packaging
Information**

This product is available in 18 kg pails, 190 kg drums and 900 kg IBCs.

Samples are available in 500 g bottles.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Health And
Environmental
Information**

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.

For further information, please see our website, consumer.dow.com or consult your local Dow representative.

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