



Technical Data Sheet

DOWSIL™ 7137 POE Emulsion

A premium, white, pourable silicone emulsion

INCI NAME: Dimethicone (and) Cocamidopropyl Betaine (and) C12-15 Pareth-3 (and) Guar Hydroxypropyltrimonium Chloride

Features & Benefits

- High silicone active emulsion
- Based on ultrahigh molecular weight polydimethylsiloxane fluid
- Easy to formulate with
- Superior hair conditioning performance
- Excellent hair smoothness on dry/wet hair
- Provides enhanced dry/wet combing performance to hair

Applications

- Shampoos
- Rinse-off and leave-in hair conditioners

Typical Properties

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

Test ¹	Property	Unit	Result
CTM0176	Appearance		White to off white liquid
	Silicone content	%w/w	65
CTM0007	pH		3.0–4.5
CTM0050	Viscosity	cp	8000–18000
CTM0957	Particle size	µm	28.0–42.0
CTM0208	Non-volatile content (NVC)	%	66.0–70.0
	Emulsifier type		Non-ionic

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

Description

DOWSIL™ 7137 POE Emulsion is a 65% emulsion of ultrahigh molecular weight polydimethylsiloxane fluid emulsified in water.

DOWSIL™ 7137 POE Emulsion has the similar performance to XIAMETER™ MEM-7137R Emulsion and better than competitor emulsion on wet combing and sensory performance in shampoo application (see Figure 1,2,3,4).

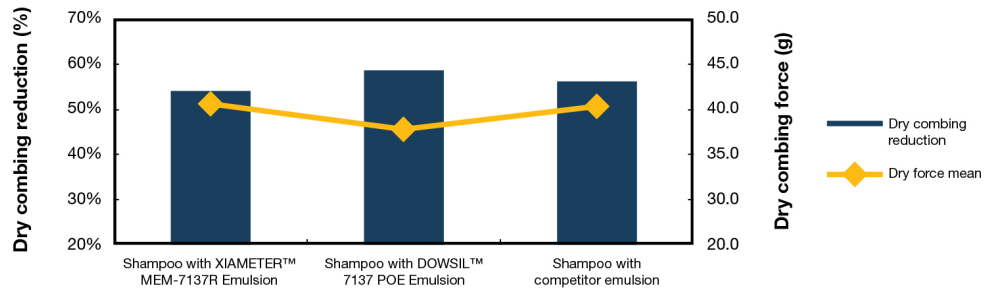


Figure 1: Dry Combing Performance by Combing Machine

Dry combing performance: There is no difference between shampoo with 3% DOWSIL™ 7137 POE Emulsion and the one with 3% XIAMETER™ MEM-7137R Emulsion. There is no difference between shampoo with 3% DOWSIL™ 7137 POE Emulsion and the one with 3% competitor emulsion.

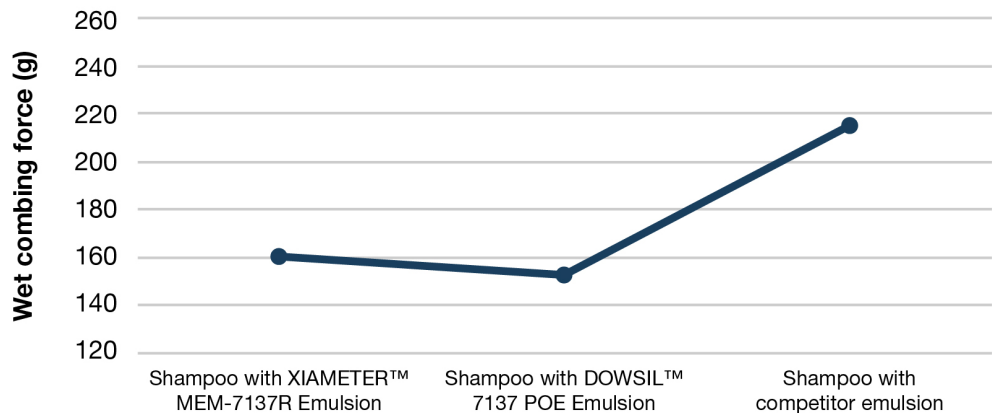


Figure 2: Wet Combing Performance by Combing Machine

Wet combing performance: There is no difference between shampoo with 3% DOWSIL™ 7137 POE Emulsion and the one with 3% XIAMETER™ MEM-7137R Emulsion. At 99% confidence level, shampoo with 3% DOWSIL™ 7137 POE Emulsion is better than the one with 3% competitor emulsion.

Description (Cont.)

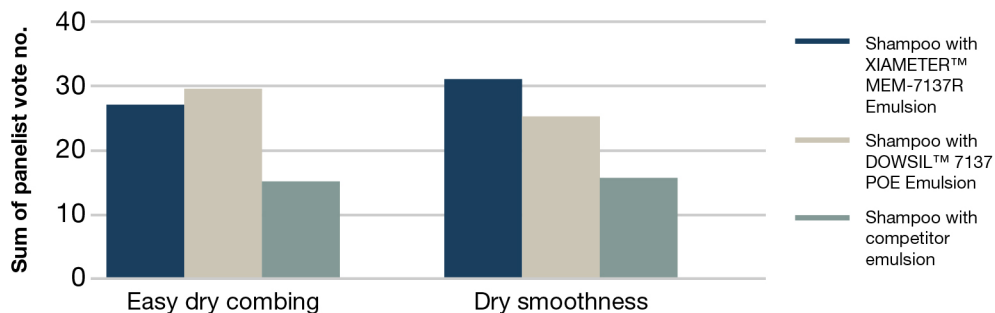


Figure 3: Dry Sensory Performance

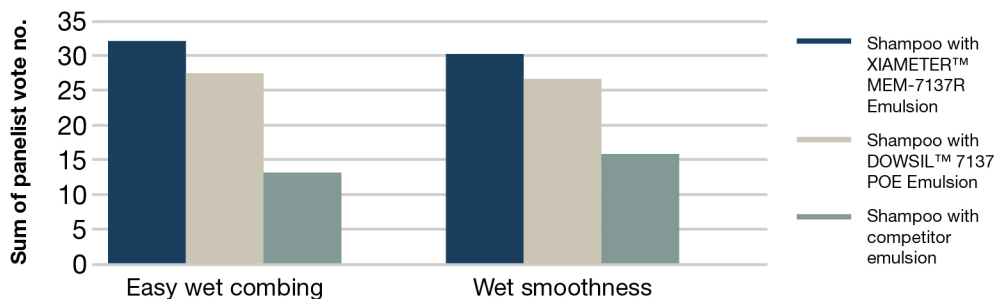


Figure 4: Wet Sensory Performance

Dry/wet sensory performance: There is no difference between shampoo with 3% DOWSIL™ 7137 POE Emulsion and the one with 3% XIAMETER™ MEM-7137R Emulsion. Over 90% confidence level, shampoo with 3% DOWSIL™ 7137 POE Emulsion is better than the one with 3% competitor emulsion.

How to Use

DOWSIL™ 7137 POE Emulsion is water dilutable making it easy to formulate with. The recommended usage level is 1 to 5%. It is recommended to add the product below 45°C (113°F) in order to minimize the risk of emulsion instability.

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.

Usable Life and Storage

Product should be stored at or below 32°C (90°F) in original, unopened containers. This product has a usable life of 18 months from the date of production.

Packaging Information

This product is available in 200 kg drum. Samples are available in 500 g bottle.

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, dow.com or consult your local Dow representative.

Disposal Considerations

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.

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.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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