



## Technical Data Sheet

### DOWSIL™ CE-1688 Emulsion

INCI Name: Dimethicone (and) Amodimethicone (and) Laureth-23 (and) Polyquaternium-10 (and) Laureth-4

#### Features & Benefits

- Based on high-molecular weight polydimethylsiloxane fluid and amodimethicone fluid
- Nonionic emulsion
- Significantly improves the wet and dry feeling of shampoo
- Smooth and soft feeling during rinse-off
- Easy to formulate

#### Applications

- 2-in-1 hair shampoo
- Rinse-off conditioner

#### Typical Properties

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

CTM <sup>1</sup>	Property	Unit	Result
	Appearance		Milky emulsion
0208	Non-volatile content (NVC)	%	62–68
0007	pH		5.5–8.5
	Emulsifier type		Non-ionic
0957	Particle size	µm	18–28
0050	Viscosity at 25°C (77°F)	mPa·s	20000–50000

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

#### Description

DOWSIL™ CE-1688 Emulsion is a 60% emulsion of high-molecular weight polydimethylsiloxane fluid and amodimethicone fluid designed to provide superior wet and dry sensory performance (Figure 1,2). It is ideal for use in 2 in 1 hair shampoos and rinse-off hair conditioners.

#### How to Use

DOWSIL™ CE-1688 Emulsion is water dilutable. Thus it is easy to formulate with. The recommended usage level is 1–3%. 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**

When stored at or below 45°C (113°F) in the 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](http://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.

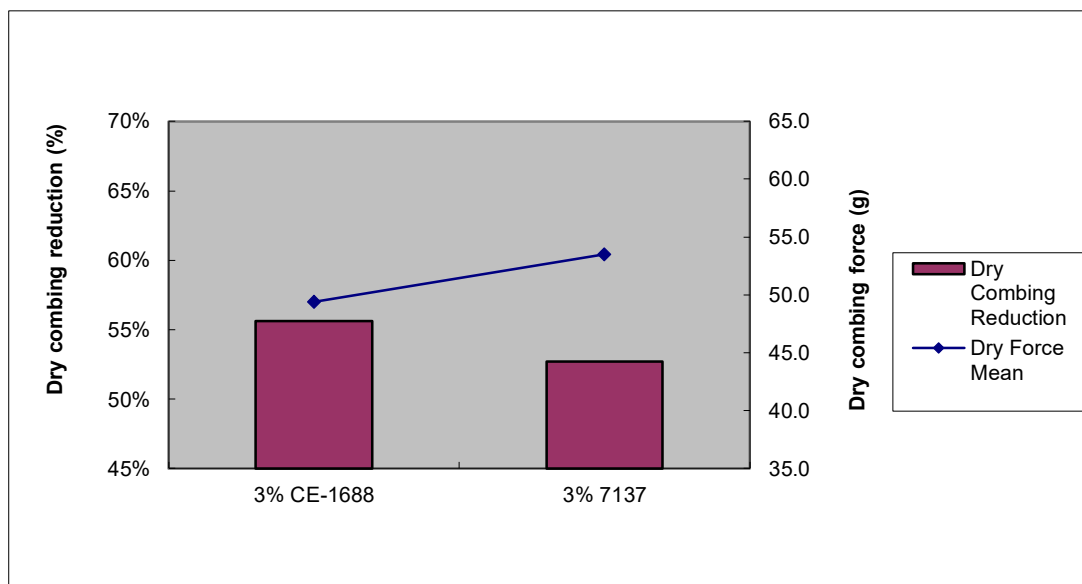
It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

**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.

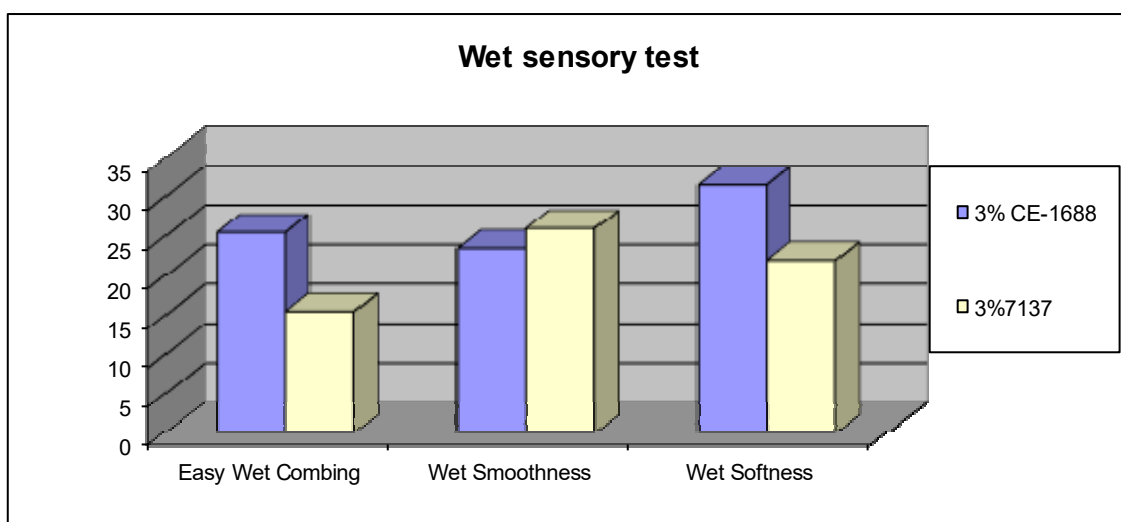
**Customer Notice**

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.



**Figure 1:** Dry combing performance

There is no difference between the shampoo with 3% DOWSIL™ CE-1688 Emulsion and the one with 3% XIAMETER™ MEM-7137 Emulsion on dry combing performance.



**Figure 2:** Wet sensory performance

The shampoo with 3% DOWSIL™ CE-1688 Emulsion is better than the one with 3% XIAMETER™ MEM-7137 Emulsion on wet combing and wet softness performance.

dow.com

**NOTICE:** No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.



®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow  
DOWSIL™ CE-1688 Emulsion  
© 2019–2024 The Dow Chemical Company. All rights reserved.