

XIAMETER[®] MEM-0949 Emulsion

INCI NAME: Amodimethicone and cetrimonium chloride and trideceth-12

FEATURES

- Easy to formulate into hair treatment products
- Dilutable in water

BENEFITS

- Reduced combing time on wet hair
- Does not give a heavy effect on dried hair

APPLICATIONS

- A very good conditioning additive especially when formulated into leave-on and styling products.
- Can be used to formulate other types of products such as perms and colorants.
- Conditioning agent

TYPICAL PROPERTIES

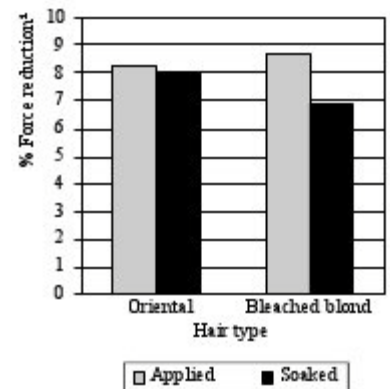
Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER[®] sales representative prior to writing specifications on this product.

Parameter	Unit	Value
Color		Milky white
Physical form		Water-thin liquid
Silicone content	%w/w	35
Viscosity at 25°C (77°F)	mm ² /s	5
Emulsifier type		Cationic
pH		7.5
Suitable diluent		Water

DESCRIPTION

XIAMETER[®] MEM-0949 Emulsion is a 35% cationic emulsion of an amine-functional silicone polymer. The amodimethicone actives are delivered in an opaque, low viscosity liquid with a neutral pH. It contains a non-tallow derived quaternary-amine surfactant and does not contain alkylphenol ethoxylate (APE) emulsifiers. This emulsion was developed as a conditioning additive for hair care products such as shampoos, conditioners, styling aids and hair colorants. This product provides easy formulation and good dilution stability.

Figure 1: Instron[®] wet combing evaluation – 1mg silicone applied to 2g hair tress.



$$\% \text{ Force reduction} = \frac{\text{ACL untreated} - \text{ACL treated}}{\text{ACL untreated}}$$

ACL - Average Combing Load

CONDITIONING BENEFITS

The conditioning benefits of XIAMETER MEM-0949 Emulsion have been demonstrated on the diluted product. Results are shown in Figure 2. In addition, XIAMETER MEM-0949 Emulsion does not give a heavy effect on dried hair as demonstrated in Figure 3. via the curl retention test.

COMPATIBILITY

XIAMETER MEM-0949 Emulsion can be formulated into systems containing different types of surfactants: anionic, cationic and non-ionic.

HOW TO USE

To optimize the dispersion of XIAMETER MEM-0949 Emulsion into the final formulation, it is recommended to add it slowly at the end of the procedure at a temperature below 40°C (104°F) with continuous mixing or stirring. Recommended use levels for conditioners is 5% and styling products 0.5 to 5.0%.

ATTENTION: Sample formulations are provided for illustrative purposes only. Dow Corning does not warrant their merchantability, fitness for use, performance, efficacy, safety or freedom from patent infringement. They are not commercial formulations and have not been subjected to extensive testing. It is your responsibility to thoroughly test any formulation before use.

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE XIAMETER WEB SITE AT WWW.XIAMETER.COM.

STORAGE

Product should be stored at or below 32°C (89.6°F) in original, unopened containers. The most up-to-date shelf life information can be found on the XIAMETER Web site in the Product Detail page under Sales Specification.

This product is susceptible to microbial contamination. Please use appropriate storage and handling procedures to prevent contamination.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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DAMAGES.**

FORMULATIONS

A. 2-in-1 Shampoo, ref. 12702/14-3.

Ingredients

1. Texapon^{®1} A 400
2. Comperlan^{®2} KD
3. Carbopol^{®3} ETD 2020 (sol 2%)
4. XIAMETER MEM-0949 Emulsion
5. Preservative
6. Perfume
7. Water

Weight %

- 30.0
3.0
30.0
4.0
q.s.
q.s.
up to 100

Suppliers

1. Henkel
 2. Henkel
 3. Goodrich
 4. Dow Corning
- Indicative viscosity: 7500mm²/s

INCI Name

Ammonium lauryl sulphate
Cocamide DEA
Acrylate/C1030 alkyl acrylate crosspolymer
Amodimethicone and cetrimonium chloride and trideceth-12

Procedure

- A. Heat 1 and 3 to 65°C (149°F) and mix until uniform, then add 2, mix until complete solubilisation.
- B. Turn off heat and add 7.
- C. When temperature is less than 40°C (104°F) add 4, 5 and 6 with strong agitation.
- D. Adjust pH to 7 with triethanolamine.
- E. Adjust viscosity with sodium chloride if necessary.

¹Texapon is a registered trademark of Cognis IP Management GmbH.

²Comperlan is a trademark of Henkel KGaA.

³Carbopol is a registered trademark of Lubrizol Advanced Materials Inc.

Figure 2: Wet combing : 6% XIAMETER MEM-0949 Emulsion in water.

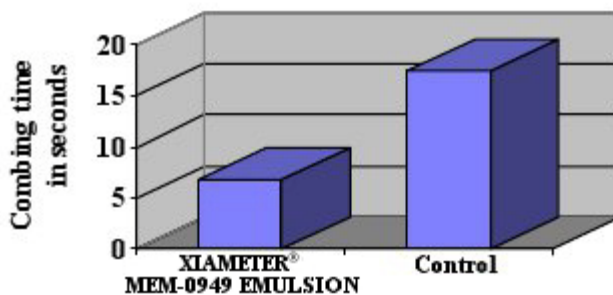


Figure 3: Curl retention test : 6% XIAMETER MEM-0949 Emulsion in water.

