XIAMETER® MEM-1607 Emulsion

Emulsion of silicone polymer

FEATURES
• Easy to incorporate into rinse cycle fabric softeners
• Active at low addition levels

APPLICATIONS
• Laundry and fabric care
• Rinse cycle fabric softeners

BENEFITS
• Softness
• Iron gliding
• Fabric mechanical stability

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.

<table>
<thead>
<tr>
<th>CTM</th>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0176</td>
<td>Appearance</td>
<td></td>
<td>Uniform, free-flowing, white liquid</td>
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<tr>
<td></td>
<td>Silicon content</td>
<td>%w/w</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>Emulsifier type</td>
<td></td>
<td>Cationic</td>
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<tr>
<td></td>
<td>pH</td>
<td></td>
<td>5-7</td>
</tr>
<tr>
<td></td>
<td>Softness performance</td>
<td>Confidence</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>at 1.5% active silicone</td>
<td>level %</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>Iron gliding performance</td>
<td>Confidence</td>
<td>99</td>
</tr>
<tr>
<td></td>
<td>at 0.8% active silicone</td>
<td>level %</td>
<td>99</td>
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</table>

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

DESCRIPTION
XIAMETER® MEM-1607 Emulsion is a cationic emulsion of a slightly cross linked silicone polymer.

HOW TO USE
XIAMETER MEM-1607 Emulsion is easy to incorporate into rinse cycle fabric softeners. It is recommended to mix the emulsion with the softener base during the final manufacturing stage at a temperature below 40°C (104°F) without high shear mixing. To obtain the claimed softness (see Figure 1) and iron gliding (see Figure 2) benefits it is recommended to add between 0.8% and 1.5% active of XIAMETER MEM-1607 Emulsion into a concentrated rinse cycle fabric softener.

Fabric mechanical stability was evaluated at 3% active XIAMETER MEM-1607 Emulsion into a concentrated softener base. For more information on this topic, please consult your local XIAMETER representative.
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 40°C (104°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.

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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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.
SOFTNESS
Softness is evaluated by 16 panelists on terry towels treated with Quat only (reference) and with Quat + XIAMETER MEM-1607 Emulsion. The following questions are asked to panelists:
- Which terry towel is the softest?
- If the reference is quoted 5, how would you rate the other terry towel on a scale of 1 to 10?
Evaluations are performed in a concentrated softener made with Tetranyl® L1/I90 from Kao Corporation. Results are presented in Figure 1.

Figure 1: Softness panel test (95% confidence level)

IRON GLIDING
Iron gliding is evaluated by measuring the force needed to pull an iron at a constant speed. The coefficients of friction obtained on fabrics treated with Quat only and with Quat + XIAMETER MEM-1607 Emulsion are presented in Figure 2. Evaluations are performed in a concentrated softener made with Tetranyl® L1/I90 from Kao Corporation.

Figure 2: Iron gliding mechanical test (99% confidence level)