

Technical Data Sheet

XIAMETER™ MEM-0039 Emulsion

Aqueous emulsion of polydimethylsiloxane

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Ready to use non ionic emulsion
 Provides gloss and water repellency

- Good wetting and slip characteristics
- General purpose release agent
- Does not contain alkylphenolethoxylates (APEO)
- Complies with Detergent Regulation (EC) No. 648/2004
- Good emulsion stability after extended periods at 50°C (4 weeks)
- Good dilution stability. Dilutions up to 130 parts water to 1 part emulsion are possible so that optimum concentration of silicone may be used with no excess waste
- Good freeze-thaw stability (5 cycles)

XIAMETER[™] MEM-0039 Emulsion has been specially formulated for use as polish ingredient and release agent/lubricant either "as received" or "pre-diluted" with water. Its formulation, stability and efficiency can lead to a variety of applications. These include:

- As ingredient in polishes, XIAMETER MEM-0039 Emulsion is used to provide good gloss with minimum smear in both car and furniture polish formulations
- Mold release of:
 - Rubber or plastic parts (stoppers, screw tops, bungs, etc.)
- Lubrication of:
 - Extruded rubber parts; conveyor belts
- Textile lubricant:
 - Yarn manufacture
 - o Sewing thread lubrication
 - o Hosiery manufacture
 - Sewing needle lubrication
 - o Glass fabric exhaust filters

Typical Properties

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

Test ¹	Property	Unit	Result	
0176	Appearance		White liquid	
0862	Non volatile content	% w/w	35.50-38.0	
0001	Specific gravity @ 77°F (25°C)		1.0	

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

Typical Properties (Cont.)

Test	Property	Unit	Result
0007	pН		6.5-8.5
	Emulsifie	r type	Non-ionic
	Diluent		Water
Description		XIAMETER MEM-0039 Emulsion is a 35% actives non-ic polydimethylsiloxane. Because its nonionic nature, it car such as nonionic, anionic, cationic surfactant or polymer complex.	n be used in a variety of systems,
How To Use		XIAMETER MEM-0039 Emulsion can be used as receive	ed or in a diluted form.
		For use as a release/lubricant XIAMETER MEM-0039 Er in a diluted form by the conventional methods of spraying hardness water should be used for dilution. A typical dilu Emulsion (1 part w/w) to water (20 parts w/w) but the use concentration and application method on a small scale b For use as fabric finish agent XIAMETER MEM-0039 En padding. The amount of emulsion required will depend o of fabric used (natural, synthetic). Generally, between 10 is recommended.	g, dipping, wiping or brushing. Low ution is XIAMETER MEM-0039 er should determine the best pefore production. nulsion can be applied to fabric by on the fabric constructions and type
		 Procedure For Padding Scour goods in a non-ionic detergent and rinse thor using 2 g/L of 80% acetic acid for 5 minutes. This w from previous processes that may cause pad bath in fabrics or gel on the rollers. If crease resist resins or fillers are used, dilute in the manufacturers' instructions. If hot, cool to below 30° emulsion. Pre-dilute the required amount of XIAMETER MEM- approximately equal weight of cold water and add to 4. If crease resist resin catalyst is used, pre-dilute with to the mixing tank. Top up to final volume with cold water. 	ill neutralize any alkali residues nstability and lead to oil spots on e mixing tank in accordance with th ^o C before adding the silicone -0039 Emulsion with an o the mixing tank.
		Start with clean mixing tank, delivery lines, pad boxDilute the emulsion with cold water only.	
		 Do not use a high shear stirrer when making finishir 	

How To Use (Cont.)	ATTENTION: Sample formulations are provided for illustrative purposes only. Dow 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.
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 WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life And Storage	XIAMETER MEM-0039 Emulsion will freeze so adequate precautions should be taken. In case of freezing, thaw at room temperature before use to reconstitute. To prevent freezing, store above 5°C.
	When stored at or below 35°C in the original unopened containers, this product has a usable life of 15 months from the date of production.
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, www.consumer.dow.com or consult your local Dow representative.

 http://www.xiameter.com
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