



## Technical Data Sheet

### **XIAMETER™ MEM-1101 Emulsion**

Release agent, lubricant and polish additive

#### **Features & Benefits**

- Good emulsion stability
- Water dilatable
- Effective at low concentrations
- No solvent fumes
- Oil phase withstands molding temperatures (no smoking, breakdown, carbonization, build-up on molds and dies)
- More efficient as a release agent than lower viscosity (oil-phase) silicone emulsions

#### **Composition**

- Aqueous emulsion of high viscosity polydimethylsiloxane

#### **Applications**

- Lubricating and release agent in plastic (i.e. PVC and rigid urethane foam), rubber, and metals molding
- Ironing aid, lubricant, and antifoam in aerosol starches
- Fiberglass release
- Lubricating and release agent in fabric sizing and other textile applications
- Web release in printing applications
- Used in furniture polish formulations

#### **Typical Properties**

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

Test <sup>1</sup>	Property	Unit	Result
0176	Appearance		Milky white
0862	Active material content	% w/w	50
1100 G	Specific gravity at 25°C (77°F)	g/ml	0.99
0007	pH		7.0
0007	Emulsifier type		Anionic/non-ionic
	Diluent		Water

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

**Description**

XIAMETER™ MEM-1101 Emulsion is a water dilatable emulsion containing 50 percent high viscosity polydimethylsiloxane. It is especially designed to combine the effectiveness of high viscosity polymer with the efficiency of high active material content.

**How To Use**

Wipe, brush, or spray the emulsion, usually diluted. The most commonly used method is a low pressure spray. Concentrations may range from one part emulsion to 10 to 500 parts water. A typical starting point concentration is one part emulsion to 20 parts water. Adjust this concentration up or down depending on the ease of release and the number of releases desired for each application.

XIAMETER MEM-1101 Emulsion has good stability in storage and dilutions. As with any emulsion, however, it is good practice to roll or agitate the drum prior to dilution, and to keep the dilute emulsion gently agitated to assure retention of uniform dispersion.

**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](http://WWW.CONSUMER.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 50°C in the original unopened containers, this product has a usable life of 18 months from the date of production.

**Limitations**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

**Finishing Molded Parts:**

The silicone release film formed by XIAMETER MEM-1101 Emulsion may, in some cases, interfere with the painting and bonding of molded parts. If a finish coat or bonding is involved, the effect of a silicone release agent should be thoroughly tested before use.

Should painting or bonding of molded parts be an issue Dow offers release agents that are compatible with many organic coatings and adhesive systems. These alternative release products provide good release and offer the advantage that residual film transferred to the molded part can be removed from the molded part without requiring extraordinary cleaning procedures prior to painting or bonding. Information about these XIAMETER™ release materials is available upon request.

**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](http://www.consumer.dow.com) or consult your local Dow representative.

<http://www.xiameter.com>

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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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