



Technical Data Sheet

XIAMETER™ MEM-1581 Emulsion

Emulsion of polydimethyl siloxane

Features & Benefits

- Good water repellency compared to standard silicone emulsions
- Compatible with most phenolic resin binder solutions
- Retains hydrophobing properties after processing at high temperatures
- Effective water repellency at low addition rates
- Performance is achieved without the need to change binder treatment or processing steps

Applications

- Hydrophobic treatment of glass wool and mineral wool insulation
- Especially recommended where elevated application temperatures occur, such as in the manufacture of fiberglass boards and mats

Typical Properties

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

Property	Unit	Result
Appearance		Milky white liquid
Silicone content	%	40
pH		6.3
Viscosity at 25°C (rotational)	mPa.s	800
Specific gravity at 25°C (77°F)		0.996
Diluent		Water

Description

XIAMETER™ MEM-1581 Emulsion is an aqueous emulsion of polydimethyl siloxane. It has been developed to give hydrophobicity for glass and mineral wool.

When applied on its own, this product imparts effective hydrophobicity using low levels of silicone concentration. It is effective at addition rates as low as 0.2% by weight of silicone in the total treatment solution. In addition, it retains these hydrophobing properties after processing at high temperatures.

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XIAMETER™ MEM-1581 Emulsion

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How To Use

If used in a resin system, XIAMETER MEM-1581 Emulsion can be added 'as supplied' or prediluted in water. Although this emulsion has good bath stability with some phenolic resins it may be necessary to mix it with the resin immediately before coating the substrate.

As a starting addition rate, it is recommended that 1 part XIAMETER MEM-1581 Emulsion is added to 100 parts of treatment solution.

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.

Useable Life And Storage

Protect this product from freezing.

Product should be stored between 5°C and 35°C in original, unopened containers.

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.

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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