

# XIAMETER<sup>®</sup> ACP-0544 Antifoam Compound

**Water dispersible 100% active silicone antifoam compound containing hydrophobic silica, silicone surfactants and PDMS**

## FEATURES

- Good shear and high temperature stability
- Self emulsifying in water antifoam systems
- Can also be used in a nonaqueous environment
- De-aeration of detergent slurries leading to low process viscosity, denser powder and reduced manufacturing time
- Suitable for a wide range of surfactants, over a wide range of pH and washing temperatures
- Non-hazardous
- Not dependent on water hardness
- Excellent antifoaming action during the entire dyeing cycle but particularly during the pressurization stage
- Easily diluted in cold water
- Minimizes fabric staining and spotting

## APPLICATIONS

- Slurry addition process aid: De-aeration leading to low process viscosity (easier pumping), denser powder and reduced manufacturing time.
- Liquid detergents: Suitable for controlling foam in end-use applications of many liquid detergent products.
- Jet dyeing machines: Effective antifoam for use in jet dyeing machines. It is well suited for a wide variety of general textile and carpet dyeing applications where foam is a problem.

## TYPICAL PROPERTIES

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

CTM <sup>1</sup>	Test	Unit	Value
0176B	Appearance		Off-white, translucent pourable liquid
0050FX	Viscosity at 25°C	cP	3000
	Specific gravity at 25°C (77°F)		1.03
	Solid content (by thermos gravimetry analysis - TGA)	%	24-32
1100L	Flash point, closed cup	°C	>100
	Suitable diluent		Water

<sup>1</sup>CTM: Corporate Test Method. Copies of CTMs are available on request.

## DESCRIPTION

XIAMETER<sup>®</sup> ACP-0544 Antifoam Compound is a water-dispersible compound.

## HOW TO USE

### Slurry de-aeration

XIAMETER ACP-0544 Antifoam Compound should be added to the detergent slurry after the addition of all liquid components and before the addition of any solid components. Typical addition levels are between 0.05 and 0.2% but these should be determined by testing as they vary according to the exact composition of the detergent.

### Liquid detergents

Due to its good dispersibility in aqueous systems, XIAMETER ACP-0544 Antifoam Compound is suitable for controlling foam in end-use applications of many liquid detergent products. For example, it may be used to control foam produced by liquid hard surface cleaning products and liquid laundry products. Typical addition levels are between 0.1 and 0.5% depending on the surfactant composition of the detergent. Precise addition levels should be determined by testing.

### **Jet dyeing machines**

XIAMETER ACP-0544 Antifoam Compound is particularly recommended for use in jet dye machines. The high shear in the process causes conventional antifoams to break down, resulting in oil spotting. XIAMETER ACP-0544 Antifoam Compound is formulated to avoid this.

Dilute XIAMETER ACP-0544 Antifoam Compound with at least nine equal volumes of cold water before use. The diluted compound may be added separately to the dye bath at any convenient time during the dyeing cycle. Its unique solubility allows it to be mixed with other chemicals such as dye carrier and scouring agent in the chemical tank. However, this should be pre-emulsified with cold water before adding to the dye bath. This ensures proper dispersion of the antifoam. Although the effective concentration will vary in specific dyeing formulations, XIAMETER ACP-0544 Antifoam Compound is often effective in concentrations as low as 50 ppm as supplied.

### **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](http://WWW.XIAMETER.COM).

### **STORAGE**

Product should be stored at or below 35°C (95°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.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**