



## Technical Data Sheet

# XIAMETER™ ACP-3302 Antifoam Compound

100% active silicone antifoam compound containing hydrophobic silica and polydimethylsiloxane

### Features & Benefits

- Suitable for a wide range of surfactants, over a wide range of pH and washing temperatures
- Active at low addition levels
- Not dependent on water hardness
- Non-hazardous

### Applications

- Liquid Laundry Detergents.
- Powder Laundry Detergents.
- Slurry Addition.

### Typical Properties

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

CTM <sup>1</sup>	Property	Unit	Result
0176B	Appearance		Off white pourable viscous liquid
0050PS	Viscosity <sup>2</sup>	cP	25,300–29,600
0768A	Density at 25°C (Paar densimeter)	g/ml	0.98–1.02
1100L	Flash point - closed cup	°C	> 100

1. CTM: Corporate Test Method, copies of CTMs are available on request.
2. Brookfield cone and plate viscosimeter: Spindle 52 and Speed 2.5 rpm.

### How To Use

#### Liquid Detergents

Silicone antifoam compounds can be simply mixed into liquid detergents when they are of the structured type.

Addition of silicones to isotropic liquid detergents is more complicated, as a dispersant is required. The nature of the dispersant depends on many factors including the detergent formulation. Suggestions include a surfactant from the detergent formulation and/or a silicone surfactant.

The range of addition levels for XIAMETER™ ACP-3302 Antifoam Compound is similar to that for powdered detergents (0.05–0.2%). Exact addition levels should be determined by testing directly in the detergent formulation.

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## How To Use (Cont.)

### **Powder Detergents**

It is recommended that silicone antifoam compounds should be "encapsulated" before being added to powder detergents in order to maintain their optimum antifoaming properties on storage. Typical addition levels of XIAMETER ACP-3302 Antifoam Compound are between 0.05–0.2% active silicone. The actual required silicone addition level depends on the nature of the detergent, particularly the surfactant composition, and exact addition levels should be ascertained by testing on the detergent formulation.

### **Slurry Addition**

XIAMETER ACP-3302 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 to 0.2% but these should be determined by testing as they depend on the exact composition of the detergent.

## 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

Product should be stored at or below 30°C (86°F) 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.

XIAMETER ACP-3302 Antifoam Compound has been specifically developed for use in detergent applications, and has not been tested for suitability of use in applications involving direct, or indirect, food contact. It is the responsibility of the user to verify regulatory compliance for nondetergent applications.

## 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.

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<http://www.xiameter.com>

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