



## Technical Data Sheet

### XIAMETER™ ACP-3425 Antifoam Compound

100% active silicone antifoam compound containing hydrophobic silica and polydimethylsiloxane

#### Features & Benefits

- Stabilizing benefits in high density liquid detergents due to its higher relative density
- De-aeration of detergent slurries leading to lower viscosity, higher density powder and reduced manufacturing time
- Suitable for a wide range of surfactants, over a wide range of pH and washing temperatures
- Not dependent on water hardness
- Non-hazardous
- Low viscosity for easier handling

#### Applications

- Silicone antifoam for liquid detergent systems.
- Powder laundry detergents.
- Slurry addition process aid.
- De-aeration leading to low process viscosity, denser powder and reduced manufacturing time (leading to easier pumping).

#### Typical Properties

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

Test <sup>1</sup>	Property	Unit	Result
0176B	Appearance		Off white pourable liquid
0050PS	Viscosity <sup>2</sup>	cP	2600–3600
0768A	Density at 25°C (Paar densimeter)	g/ml	1.02–1.04
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.

UNRESTRICTED – May be shared with anyone

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

XIAMETER™ ACP-3425 Antifoam Compound

© 2017 The Dow Chemical Company. All rights reserved.

## How To Use

### Liquid Detergents

Due to its good dispersibility in aqueous systems, XIAMETER™ ACP-3425 Antifoam Compound is suitable for controlling foam in end-use applications of many liquid detergent products. For example, XIAMETER ACP-3425 Antifoam Compound may be used to control the foam produced by liquid hard surface cleaning products and liquid laundry detergents. Typical addition levels are between 0.1 and 0.5 % but these will vary depending on the surfactants composition of the detergent; therefore precise addition levels should be determined by testing.

To facilitate incorporation into the liquid detergent, a dispersing aid is suggested, such as a surfactant from the detergent formulation.

### 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-3425 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 directly in the detergent formulation.

### Slurry Addition

XIAMETER ACP-3425 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 vary according to 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 50°C (122°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-3425 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 non-detergent applications.

UNRESTRICTED – May be shared with anyone

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

XIAMETER™ ACP-3425 Antifoam Compound

© 2017 The Dow Chemical Company. All rights reserved.

## 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>

### **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'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.

**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

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

