

SagTex™ DSA Silicone Antifoam

Product Description

SagTex DSA silicone antifoam is a medium-viscosity, highly potent antifoam emulsion that can offer excellent foam control as well as excellent compatibility with a variety of surfactant concentrates and foaming systems. Compared to common silicone defoamers, it can provide exceptional foam knockdown and durability, along with greater compatibility in difficult surfactant systems, such as those rich in solvents and/or electrolytes.

Key Features and Typical Benefits

- High antifoam efficiency in surfactant-rich systems
- Rapid foam knockdown
- Excellent foam control at temperatures up to 95 °C (203 °F)
- Long-term foam inhibition
- Easy dispersion in all foaming systems
- Easy dispersion in hard water
- Long durability in acid and alkaline conditions
- No oily spots or lumps when diluted with water
- Compatibility with a variety of surfactant concentrates

Typical Physical Properties

Appearance	Milky white liquid
Active Content, %	20
Viscosity at 25 °C (77 °F) (LVT No. 3,30 RPM), cP	1000
Emulsifier Type	O/W, nonionic
Specific Gravity at 25 °C (77 °F)	1.0
pH	7

Typical properties are average data and are not to be used as, or to develop, specifications.

Potential Applications

Textile Processes

- Sizing
- Scouring
- Printing
- Finishing

General Considerations for Use

SagTex DSA silicone antifoam is a medium-viscosity emulsion that can be easily transferred from its original package using piston pumps. Centrifugal pumps are not recommended, as they may destabilize the emulsion and, in extreme cases, cause separation. In low-viscosity formulations, preliminary stability and compatibility studies must be conducted prior to formulation design.

If SagTex DSA silicone antifoam is intended for use in surfactant concentrates (primarily surfactants, water, and solvents), it is recommended that the product be dosed as received, i.e., without predilution. After addition, carry out slow to moderate mixing to ensure complete and homogenous dispersion of the antifoam. Typical use levels range from 0.1% to 0.5% depending on the formulation and the degree of foam control required.

For process applications, we recommend prediluting SagTex DSA silicone antifoam with cold water at a ratio of 1:1 to 1:10. At high dilutions levels, care must be taken to ensure the stability of the dilution. Stability can be extended by adding small amounts of a suitable thickening agent, e.g., xanthan gum or polyacrylates. Commercial biocides^(a) containing 2-Methyl-4-Isothiazolin-3 ones and/or 2-Bromo-2-Nitro-1,3-Propanediol are very effective in this type of product.

A suggested starting concentration is typically between 0.1% and 2%, although this may vary depending on the severity of the foaming problem.

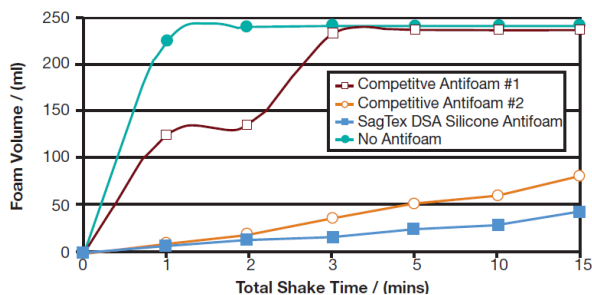
^(a) Biocides must be used in accordance with FIFRA regulations and manufacturer's guidelines.

Performance Data

Shake Tests

Glass bottles containing a blend of a 0.5% w/w sodium linear alkylbenzenesulphonate solution and 100 ppm of SagTex DSA silicone antifoam were vertically shaken using a laboratory wrist-action shaker. Seven shakes were carried out, each lasting progressively longer (the first shake lasted less than 1 minute, while the last lasted 20 minutes). Immediately at the end of each shake, residual foam height was recorded. Figure 1 below exhibits the results. The data show the fast-acting nature of SagTex DSA silicone antifoam, as well as its outstanding durability.

Figure 1:

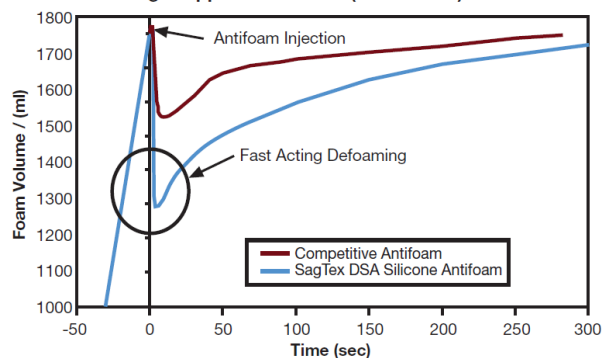


Lab tests; actual results may vary.

Recirculation Tests

The following test evaluates the foam control performance of SagTex DSA silicone antifoam under fully dynamic conditions. 1000 ml of a 0.5% sodium dodecylbenzenesulphonate solution is placed in a 2000 ml volumetric cylinder, heated to 77 °C (171 °F), and recirculated. As soon as the foam reaches 1800 ml, 100 ppm of antifoam is dosed. With recirculation on-going, the foam height against time is recorded. The recirculation test is run for 300 seconds. The foam profile of SagTex DSA silicone antifoam indicates fast defoaming, or initial foam collapse. The high activity of SagTex DSA silicone antifoam continues to suppress foam generation and to retain foam control for long periods of time. A competitive silicone antifoam emulsion is tested for comparison.

Figure 2: Recirculation Test in 0.5% SDBS @ 77°C (171°F) Test Using 100ppm of Antifoam (as received)



Lab tests; actual results may vary.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent without authority from the owner of the patent.

Product Safety, Handling, and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in MyMomentive™ Order Management Site. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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