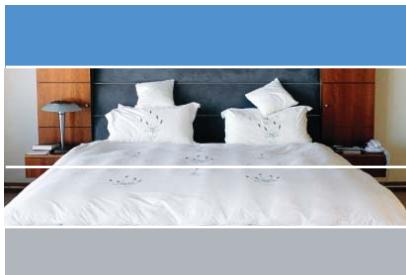


SAGTEX* PhD silicone antifoam

SPECIALTY FLUIDS - TEXTILES & LEATHER



SagTex PhD silicone foam control agent is a high-performance antifoam emulsion designed for multiple uses in the textile industry. The product typically offers very good initial foam knockdown and excellent durability at concentrations less than half that of competitive silicone antifoams. Additionally, SagTex PhD silicone antifoam gives a homogeneous dilution in water or bath formulations with no oiling or agglomerates.

Key Features and Typical Benefits

- long durability in acidic or alkaline conditions
- outstanding durability at low add-on levels
- effective performance at significantly lower use levels than competitive antifoams
- excellent foam control at ambient and elevated temperatures
- rapid foam knockdown
- no oily spots or agglomerates when diluted with water
- easily dispersed in hard water

Typical Physical Properties

Appearance	Milky white liquid
Active Content, %	45
Viscosity 25°C (77°F) (Brookfield LVT No. 3, 30 RPM), cP	1500-2500
Emulsifier Type	O/W, non-ionic
Specific Gravity at 25/25°C (77°F)	1.0
pH	8

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How to Use

SagTex PhD silicone foam control agent is a medium viscosity emulsion that can be easily transferred from its original package using piston pumps. Centrifugal pumps are not recommended, as they risk destabilizing, and in extreme cases, separating the emulsion. In low viscosity formulations, preliminary stability and compatibility studies must be conducted prior to formulation design.

For process application, we recommend prediluting SagTex PhD silicone foam control agent with cold water (less than 18°C) in a ratio of 1:1 to 1:20. If the diluted SagTex PhD emulsion will be stored before use, then care must be taken to ensure stability of the dilution. Stability can be extended by adding small amounts of a suitable thickening agent, such as xanthan gum or polyacrylates, to the diluting water. Commercial biocides containing 2-Methyl-4 Isothiazolin-3 one and/or 2-Bromo-2-nitro-1,3-propanediol are very effective in this type of product.

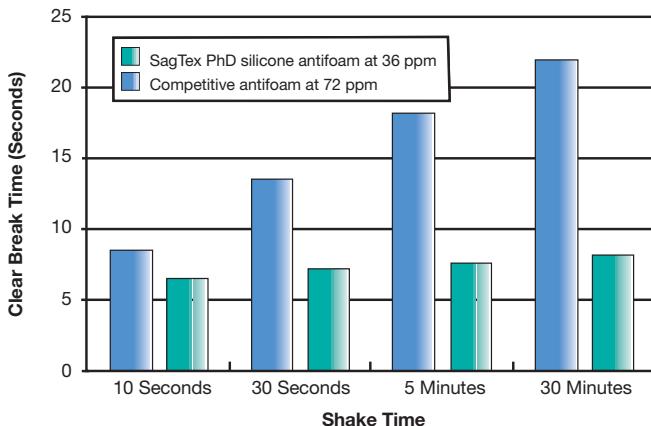
A suggested starting concentration is typically between 0.1 and 2 percent, but this will vary depending on the severity of the foaming problem.

Performance Data

Shake Test

Glass bottles containing a blend of a one percent octylphenol ethoxylate solution and the antifoams were shaken using a laboratory wrist action shaker at ambient temperature. Four shakes were carried out; each one lasting longer. At the end of each shake, the amount of time it took for the foam to collapse (clear break) was recorded. Figure 1 shows these results. Note that SagTex PhD silicone foam control agent was quicker at controlling foam and showed excellent durability at half the concentration of the competitive material.

Figure 1: Faster Break Time – Shake Test with One Percent Octylphenol Ethoxylate Solution at Ambient Temperature

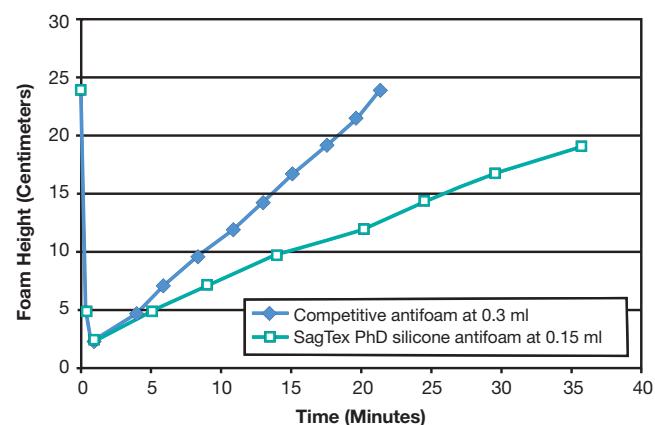


Recirculation Tests

The following test compares antifoams under dynamic conditions. Two hundred and fifty milliliters of a one percent octylphenol ethoxylate solution is recirculated through a glass cell using a centrifugal pump. As soon as the foam height reaches twenty-four centimeters, the antifoam is injected into the solution without stopping the recirculation. The foam height versus time is recorded.

In this test, SagTex PhD silicone foam control agent showed excellent durability and equivalent foam knockdown compared to the competitive material at half the concentration.

Figure 2: Recirculation Test with One Percent Octylphenol Ethoxylate Solution



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Patent Status

Technical subject matter in this publication is described and protected by one or more pending US patent applications and foreign counterparts.

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Customer Service Centers

Worldwide Hotline

T +1 800 295 2392 / +1 607 786 8131
F +1 607 786 8309

North America

cs-na.silicones@m momentive.com

Silicones – Fluids, Urethane Additives, Silanes, Specialty Coatings, RTVs and Elastomers

T +1 800 523 5862 / +1 800 334 4674
F +1 304 746 1654 / +1 304 746 1623

Consumer Sealants/ Construction Sealants and Adhesives

T +1 877 943 7325
F +1 304 746 1654

Latin America

cs-la.silicones@m momentive.com

South America

T +55 11 4534 9650
F +55 11 4534 9660

Mexico and Central America

T +52 55 2169 7670
F +52 55 2169 7699

Europe, Middle East, Africa and India

cs-eur.silicones@m momentive.com

T +00 800 4321 1000 / +40 21 3111848

Pacific

cs-ap.silicones@m momentive.com

China

T +800 820 0202 / +86 21 3860 4892

Japan

T +0120 975 400 / +81 276 20 6182
F +81 276 31 6259

Korea

T +82 2 6201 4600
F +82 2 6201 4601

Malaysia

T +60 3 9206 1555
F +60 3 9206 1533

Thailand

T +66 2207 3456
F +66 2207 3488

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22 Corporate Woods Boulevard
Albany, NY 12211 USA
+1 800 295 2392
+1 607 786 8131
momentive.com