



Antifoams for **Pharmaceuticals**



KCC Basildon has been manufacturing Simethicone for use in oral dose forms for over 25 years. Our GMP certified plant in the UK produces both 100% active and 30% emulsions of Simethicone to satisfy the demands of a variety of dose forms including tablets, soft gel capsules and liquids. Our products are used throughout the world and can be supplied in compliance with USP or EP monographs.

Powders and Tablets

We supply the following 100% Simethicone products for use in the production of tablet and powder dose forms.

Simethicone C100F	USP compliant Low volatiles Suitable for hard & chewable tablets as well as powders	US DMF 014035 NDC No. 65215-456-1
Simethicone C100EP	EP compliant Low volatiles Suitable for hard & chewable tablets as well as powders	CEP 2002-005
Simethicone C100LV	Low viscosity EP & USP compliant Low volatiles Suitable for hard & chewable tablets as well as powders	CEP 2013-345 US DMF 014035 NDC 65215-456-1

Liquid Formulations

While 100% Simethicone can be used in liquid dose forms, it is difficult to disperse in aqueous formulations and most customers find it easier to use a Simethicone Emulsion.

Simethicone PD30S	USP compliant 30% Simethicone Easily dispersed in aqueous formulations	US DMF 030430 NDC No. 65216-123
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Soft Gel Capsules

Delivering Simethicone in a soft gel dose requires a 100% Simethicone.

C100F, C100EP or **C100LV** will all provide excellent performance from a soft gel capsule and are already widely used.

In production of soft gel capsules, the ingredients, including the simethicone, are often injected into the capsule at the point of encapsulation. In a fast moving, precision process of this type, the viscosity of the liquid being filled into the capsule can be critical in maintaining accurate fill levels. Simethicone **C100LV** is designed specifically for this kind of application.

Process Antifoams for Pharma Applications

Biopharmaceutical Processes

Where a fully USP compliant antifoam is required in a biopharm process, **PD30S** will provide excellent control in a variety of applications including cell culture fermentations.

Simethicone PD30S

USP compliant

Compatible with aqueous fermentation systems

Excellent foam and reaction control in fermentations



Basildon Chemicals wide range of pharmaceutical grade silicone antifoams (Simethicone) are tested to US and European Pharmacopeia standards. Our antifoams are available as 100% active Simethicone compounds for tablet and gel capsule production, or as 30% active emulsions for liquid suspension formulations. Our low viscosity 100% active simethicone compounds lend themselves perfectly to soft-gel capsule production where their superior handling qualities are advantageous. All the products listed in this brochure are certified Kosher and Halal by the relevant UK authorities



Antibiotic, Vitamin & Enzyme Production

The fermentation of antibiotics and antibiotic intermediates such as 6-APA are processes where our antifoams have long been used. The production of Enzymes, Proteins, Vitamins and other Pharma/Nutritional ingredients can benefit from the use of the correct antifoam and Foam-Clear **EscaFerm-S** has shown outstanding performance in many such applications over the years.



EscaFerm-S

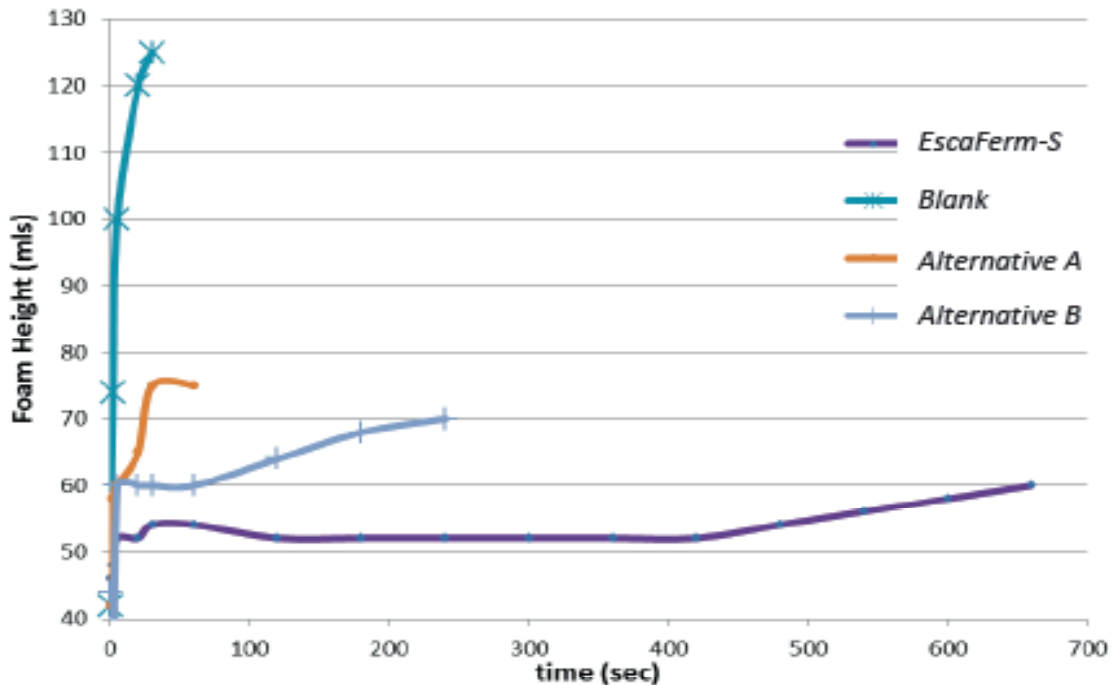
Silicone/Organic Formulation

100% active

Suitable for sugar molasses & grain based fermentations

Sterilization stable

Longevity characteristics



2000ppm active antifoam dosed into a 50:50 broth:water blend



Antifoams for **Pharmaceuticals**

Basildon Chemicals, in partnership with the KCC Corporation, offer specialist manufacturing capabilities, with significant experience in a wide range of silicone based materials.

Together we can supply everything from basic and functional siloxanes to formulated products such as emulsions and dispersions.

With a well established network of distributors, Basildon Chemicals prides itself on being a flexible and responsive supplier throughout the pharmaceutical markets of the world.

As well as being ISO 9001 : 2008 certified, Basildon Chemicals also manufacture products to FDA, USP, EP & Kosher standards for food and pharmaceutical applications and are approved by the Halal Food Authority



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