



# Liveo™ Antifoam M Compound

## Silicone Antifoam

Liveo™ Antifoam M Compound is a specially formulated low volatile silicone antifoam designed for use in various medical and pharmaceutical applications requiring foam control.

It is formulated and manufactured so that the quantity of volatile, low molecular weight silicone species is minimized. This low volatility is especially advantageous in the manufacture of antifoaming or antifoaming/antacid tablets and other products with high temperature processing conditions. This decreased volatility will help prevent the loss of silicone species and minimize the chance for a low assay result.

Liveo™ Antifoam M Compound may be used as an antifoaming ingredient in antacid preparations, as a foam suppressant in pharmaceutical processes such as fermentation, maceration, percolation and mixing, and as an agent to improve the efficiency of ampoule and bottle filling when foaming is a problem.

In direct application, the height to which a foam will rise can be limited by applying Antifoam M Compound to processing equipment. For example, the defoamer is often wiped on nozzles of bottle-filling machines to knock down foam as it rises in the neck of the bottle. Similarly, if applied to the rim of a processing container, foam overflow can be prevented.

### Packaging :

This product is available in 418 lb drums, 40 lb pails and 1 lb bottles.

### Product information

Color	Grey	
Basis	PDMS + SiO <sub>2</sub> -	
Acid number	0.84 mgKOH/g	PhEur 1470
Aromatic content	0.2 ABS	PhEur 1470
Heavy metals content	≤5 ppm	
Silicon dioxide content	4 - 7 %	PhEur 1470
Polydimethylsiloxane content	90.5 - 99 %	PhEur 1470

### Rheological properties

Viscosity	3100 mPa.s
[1]: for silicone fluid only	

### Specific Application Suitability

Defoaming performance, 20ppm	≤15 s	PhEur 1470
------------------------------	-------	------------



# Liveo™ Antifoam M Compound

## Silicone Antifoam

### Other properties

Density	970 kg/m <sup>3</sup>	ISO 1183
Volatility, 4h at 392°F	≤1 %	PhEur 1470
Refractive index	1.404 <sup>[1]</sup> -	
[1]: for silicone fluid only		

### Storage and stability

Shelf life	18 months
------------	-----------

### Characteristics

Food contact	FDA 21 CFR
--------------	------------

### Additional information

How to use

#### Storage:

Some settling may occur during storage of Liveo™ Antifoam M Compound. Therefore, containers should be thoroughly mixed prior to use or testing.

#### Process Defoaming

In general, concentrations of 1 to 50 parts per million (ppm) are sufficient to suppress foaming in most systems. It is suggested that a concentration within this range be used initially. Adjustments in concentration may be desirable to determine the appropriate level to use for any particular process or product.

#### Solvent Dispersion

In applications where solvents can be used, Liveo™ Antifoam M Compound may be dispersed in a solvent and then sprayed on the foam or the solvent dispersion may be flushed through a system to remove remnants of foam. Dispersions may be made in an acceptable non-polar solvent. These dispersions require constant agitation to prevent settling of the silicon dioxide.

#### Tableting

In some applications, Liveo™ Antifoam M Compound may be premixed with a carrier material and this mixture subsequently added directly to the foaming system. This technique is commonly used in the manufacture of antifatulent and antifatulent/antacid tablets. For this application, the silicone antifoam compound is either dry- or wet-granulated with common carrier materials such as sugars, starches, or cellulose derivatives and then further processed into tablets.



# Liveo™ Antifoam M Compound

Silicone Antifoam

Revised: 2020-09-04

Page: 3 of 3

[dupont.com](http://dupont.com)

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable, and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

**CAUTION:** Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract or other acknowledgement that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard 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, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.

© 2022 DuPont. All rights reserved.