Liveo™ Q7-2243 LVA, Simethicone USP

Silicone Antifoam

Liveo™ Q7-2243 LVA, Simethicone USP is a specially formulated low volatile silicone antifoarn designed for use in various medical and pharmaceutical applications requiring foam suppression or inhibition.

Liveo™ Q7-2243 LVA, Simethicone USP is formulated and manufactured so that the quantity of volatile, low-molecular-weight silicone species is minimal. This low volatility (1 percent maximum) is especially advantageous in the manufacture of antiflatulent or antiflatulent/antacid tablets and other products where processing conditions, such as drying by high surface area exposure at elevated temperatures, will result in loss of volatile silicone species and subsequent low assay results for silicone fluid.

Packaging :

Liveo™ Q7-2243 LVA, Simethicone USP is available in 18 and 200 kg containers, net weight.

Product information

Colour	Gray	-	
Basis	PDMS + SiO2	-	
Heavy metals content	≤5	ppm	
Silicon dioxide content	4 - 7	%	PhEur 1470
Polydimethylsiloxane content	90.5 - 99	%	PhEur 1470

Rheological properties

Viscosity	570	mPa.s	

Specific Application Suitability

Defoaming performance, 20ppm	≤15	s	PhEur 1470

Other properties

Specific Gravity	0.975[1]	-	ASTM D 4052
Volatility, 4h at 200°C	≤1	%	PhEur 1470
Refractive index	1.404[1]	-	

1: for silicone fluid only

Storage and stability

Shelf life	24	months

Characteristics

Food contact	FDA 21 CFR

Additional Information

How to use

Storage:

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Some settling may occur during storage of Liveo™ Q7-2243 LVA, Simethicone USP. Therefore, containers should be thoroughly mixed prior to use or testing.

How to Use:

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 detennine the appropriate level to use for any particular process or product.

The height to which a foam will rise can be limited by applying Liveo™ Q7-2243 LVA, Simethicone USP 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.

Solvent Dispersion: In applications where solvents can be used, Liveo™ Q7-2243 LVA, Simethiconc USP 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™ Q7-2243 LVA, Simethiconc USP 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 antiflatulent and antiflatulent/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.