

Antifoams and antifoam emulsions





Choose the right antifoam or emulsion for your formulations



Application-based scientific know-how and regulatory expertise from DuPont™ Liveo™ helps customers deliver innovative solutions. To assure consistent quality for use as pharmaceutical ingredients, antifoam products are manufactured, packaged and tested utilizing principles of GMP guidelines for Active Pharmaceutical Ingredients (APIs).

										Typical Properties†																		
										Shelf Life																		
										Simethicone Level																		
										Viscosity³																		
										Based on Vegetable Surfactant																		
										Appearance																		
										Halal Certified																		
										Kosher Certified																		
										Processing Aid																		
										Pharmacopoeial Grade																		
										pH																		
										Silicon Dioxide Content																		
										Nonvolatile Content																		
										Volatility																		
										Heavy Metal Content⁴																		
										Defoaming Performance																		
										PDMS Content																		
										API																		
											%	seconds	ppm	w/w %	w/w %	%								cP	%	months		
Description	Typical Applications	Regulatory Status																										
		GMP Produced per ICH Q7 Principles																										
		Ph. Eur. (EP) Monograph for Simeticonum																										
		USP Monograph Requirements for																										
		Certificate of Suitability/CEP																										
		FDA Drug Master File																										
		FDA Regulation 21 CFR 332.10⁵																										
		FDA Regulation 21 CFR 173.340⁶																										
		Antifoam Compounds																										
Mixture of a low-volatile polydimethylsiloxane fluid and silicon dioxide	• Foam control in medical and pharmaceutical applications • OTC antifatulents	Liveo™ Q7-2243 LVA, Simethicone USP	•	•	•	•	•		•	•		Yes (PhEur)	90.5-99	<15 20 ppm	<5	<1.0		4-7		USP/ PhEur	Yes	Yes	Yes	Light grey liquid	N/A	570	100	24
Mixture of polydimethylsiloxane (PDMS) fluid and silicon dioxide		Liveo™ Antifoam M Compound	•	•	•	•			•	•		Yes (PhEur)	90.5-99	<15 20 ppm	<5	<1.0		4-7		PhEur	Yes	Yes	No	Light grey liquid	N/A	3,100	100	18
Mixture of polydimethylsiloxane (PDMS) fluid and silicon dioxide	• Foam control in blood oxygenation devices	Liveo™ Medical Antifoam A Compound	•	•	•		•			•		No	90.5–99	<15	<5	≤18				USP	Yes	Yes	No	Grey liquid	N/A	500	100	36
		Antifoam Emulsions																										
Water-dilutable, nonionic emulsion containing 30% low-volatile Simethicone USP by weight	• Foam control in medical and pharmaceutical applications • OTC antifatulents	Liveo™ Q7-2587, 30% Simethicone Emulsion USP	•	•	•			•		•		Yes (USP, historical use in Europe²)	30.4	<15 50 ppm	<5		41.7	1.2-2.1	2.6	USP¹	Yes	Yes	Yes	Off-white liquid	Yes	31,500	30	36
Water-dilutable nonionic emulsion containing 30% Simethicone USP by weight	• Biofermentation	Liveo™ 7-9245, 30% Simethicone Emulsion USP	•	•	•			•		•		No	29.6	<15 50 ppm	<5		>36	1.2-2.1	2.6	USP¹	Yes	Yes	No	Off-white liquid	Yes	134,000	30	12
		Liveo™ Medical Antifoam C Emulsion	•	•	•			•		•		No	29.4	<15 50 ppm	<5		30	1.2-2.1	2.5	USP¹	Yes	Yes	Yes	Off-white liquid	Yes	1,500	30	48

[†] Specifications Writers: These values are not intended for use in preparing specifications. Please contact your local DuPont sales office prior to writing specifications on these products.

¹ No Simethicone Emulsion monograph currently exists in the PhEur
² Proven historical use/registration on the European market (although no PhEur monograph exists)
³ Viscosity measurement data depend on specific testing

conditions (available upon request)
⁴ Elemental impurities data available upon request
⁵ Antifatulent active ingredients
⁶ Defoaming agents

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