

Antifoams and Antifoam Emulsions

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).

Regulatory Status

Ph. Eur. (EP) Monograph for Simeticonium
USP Monograph Requirements for Simethicone Emulsion USP
USP Monograph Requirements for Simethicone USP
Certificate of Suitability/CEP
FDA Drug Master File
FDA Regulation 21 CFR 332.10
FDA Regulation 21 CFR 173.340

Antifoams

Antifoam	USP	EP	CEP	DMF	21 CFR 332.10	21 CFR 173.340
Dow Corning™ Q7-2243 LVA, Simethicone USP	•	•	•	•	•	•
Dow Corning™ Antifoam M Compound	•	•	•	•	•	•
Dow Corning™ Q7-2587, 30% Simethicone Emulsion USP	•	•	•	•	•	•
Dow Corning™ 7-9245, 30% Simethicone Emulsion USP	•	•	•	•	•	•
Dow Corning™ Medical Antifoam C Emulsion	•	•	•	•	•	•

Typical Properties†

Property	%	seconds	ppm	w/w %	w/w %	%
pH						
Silicon Dioxide Content						
Nonvolatile Content						
Volatility						
Heavy Metal Content						
Defoaming Performance						
PDMS Content						
	90.5-99	<15 20 ppm	<5	<1.0		4-7
	90.5-99	<15 20 ppm	<5	<1.0		4-7
	30.4	<15 50 ppm	<5		41.7	1.2-2.1 2.6
	29.6	<15 50 ppm	<5		>36	1.2-2.1 2.6
	29.4	<15 50 ppm	<5		30	1.2-2.1 2.5

Description	Typical Applications
Mixture of a low-volatile polydimethylsiloxane fluid and silicon dioxide	<ul style="list-style-type: none"> Foam control in medical and pharmaceutical applications OTC antifatulents
Mixture of polydimethylsiloxane (PDMS) fluid and silicon dioxide	
Water-dilutable, nonionic emulsion containing 30% low-volatile Simethicone USP by weight	<ul style="list-style-type: none"> Foam control in medical and pharmaceutical applications OTC antifatulents
Water-dilutable nonionic emulsion containing 30% Simethicone USP by weight	<ul style="list-style-type: none"> Biofermentation
Water-dilutable emulsion containing 30% Simethicone USP by weight and methylcellulose	

† 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.

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