

Antifoams and Antifoam Emulsions

To assure consistent quality for use as pharmaceutical ingredients, Dow Corning® brand antifoam products are manufactured, packaged, and tested at the Healthcare Industries Materials Site utilizing principles of GMP guidelines for Active Pharmaceutical Ingredients (APIs).

Description	Typical Applications	Regulatory Status							Typical Properties†						
		Ph. Eur. (EP) Monograph for Simeticonium	USP Monograph Requirements for Simethicone Emulsion USP	USP Monograph Requirements for Simethicone USP	Technical File¹	FDA Drug Master File	FDA Regulation 21 CFR 332.10	FDA Regulation 21 CFR 173.340	pH	Silicon Dioxide Content	Nonvolatile Content	Volatility	Heavy Metal Content	Defoaming Performance	PDMS Content
		Antifoams							%	seconds	ppm	w/w %	w/w %	%	
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 	<i>Dow Corning</i> ® Q7-2243 LVA, Simethicone USP	•	•	•	•	•	•	90.5-99	<15 20 ppm	<5	<1.0		4-7	
Mixture of polydimethylsiloxane (PDMS) fluid and silicon dioxide		<i>Dow Corning</i> ® Antifoam M Compound²	•	•	•	•	•	•	90.5-99	<15 20 ppm	<5	<1.0		4-7	
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 Biofermentation 	<i>Dow Corning</i> ® Q7-2587, 30% Simethicone Emulsion USP	•	•	•	•	•	•	30.4	<15 50 ppm	<5		41.7	1.2-2.1 2.6	
Water-dilutable nonionic emulsion containing 30% Simethicone USP by weight		<i>Dow Corning</i> ® 7-9245, 30% Simethicone Emulsion USP³	•	•	•	•	•	•	29.6	<15 50 ppm	<5		>36	1.2-2.1 2.6	
Water-dilutable emulsion containing 30% Simethicone USP by weight and methylcellulose		<i>Dow Corning</i> ® Medical Antifoam C Emulsion	•	•	•	•	•	•	29.4	<15 50 ppm	<5		30	1.2-2.1 2.5	

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

¹ Dow Corning can provide Technical Files as needed to meet requirements. In Europe, Dow Corning holds an open Drug Master File for Q7-2243, Q7-2587 and Antifoam M and a Technical File for Medical Antifoam C Emulsion.

² Dow Corning holds a Certificate of Suitability to Simeticone Monograph of the European Pharmacopoeia (Reference number R0-CEP 2004-299-Rev 00 for Simeticone) for this product.

³ This product is available only in the USA.