

Quick Overview of Fluids, Emulsions, and Dispersions from Dow Corning

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How do PDMS fluids compare?

	360 Medical Fluid	Q7-9120 Silicone Fluid	200 Fluid
Polydimethylsiloxane	✓	✓	✓
cGMPs, traceability, change control	✓	✓	
Dimethicone NF	✓	✓ (not tested for bacterial endotoxins)	
Ph. Eur. Dimeticone (20, 100, 350, 1000 cSt)	✓	✓	
Ph. Eur. Silicone Oil used as a Lubricant (12,500 cSt)	✓	✓	
Skin Protectant Drug Products for Over-the-Counter Use; Final Monograph (21 CFR 347.10)	✓	✓	
US Drug Master File (DMF)	✓	✓	
Certificate of Suitability for Ph. Eur. Monographs	✓	✓	

How do the fluids, emulsions, dispersions compare?

	360 Medical Fluid	365, 35% Dimethicone NF Emulsion	MDX4-4159, 50% Medical Grade Dispersion
Curable coating	No	No	Yes
Dilute before use	Maybe	Yes	Yes
Apply via dip, wipe	Yes	Yes	Yes
Apply via spray	Yes	Yes	No
Sterilize coated article, not bulk	Yes	Yes	Yes
Detectable on treated surface	Yes	Yes	Difficult
Removable from treated surface	Yes	Yes	Difficult
Use just the amount you need	Yes	Yes	Yes

Summary of Typical Applications

Application	Product	Notes
Parenteral Drug Applications	360 Medical Fluids	360 Medical Fluid is tested for Bacterial Endotoxins and certified to meet Dimethicone NF requirements for parenteral drug applications. Q7-9120 Fluids ARE NOT certified to meet Bacterial Endotoxin NF limits.
Siliconization: hydrophobing and lubrication of syringes, needles, vials, stoppers	360 Medical Fluids, 365, 35% Dimethicone NF Emulsion, MDX4-4159, 50% Medical Grade Dispersion	
Topical Formulations	Q7-9120 Silicone Fluids, 360 Medical Fluids	Acceptable for pharmaceutical topical or personal care formulations for which customers want to claim skin protectancy (21CFR Part 347.10).