

# Fluids, Emulsions, and Dispersions

To assure consistent quality for pharmaceutical formulations and applications, Dow Corning® brand fluid and emulsion 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	Volatile Fluids <sup>3</sup>	Fluids <sup>3</sup>	Emulsion	Dispersion	Typical Properties†												
							mm <sup>2</sup> ·s <sup>-1</sup>	%	°C	pH	Flash Point, closed cup	Color, APHA	Volatile Content	Specific Gravity at 25°C	Viscosity at 25°C				
Ozone-safe, high-purity volatile methylsiloxane fluids	<ul style="list-style-type: none"> <li>Medical device cleaning solvent</li> <li>Equipment cleaning solvent</li> <li>Swelling of silicone tubing</li> <li>Diluent for Dow Corning® 360 Medical Fluid</li> <li>Pharmaceutical solvent</li> </ul>	VOC Exempted in USA by the EPA Ph. Eur. (EP) Monograph (CEP Available) Silicone Oil Used as Lubricant <sup>1</sup> Dimeticone <sup>1</sup> NF Monograph Requirements for Dimethicone Technical File <sup>1</sup> FDA Drug Master File FDA Regulation 21 CFR 347.10 <sup>2</sup>	Dow Corning® Q7-9180 Silicone Fluid <sup>4</sup>																
			0.65 cSt					0.65	0.76										
			1 cSt				1	0.82										34	
Clear, colorless polydimethylsiloxane liquid	<ul style="list-style-type: none"> <li>Siliconization lubricant</li> <li>Hydrophobic lubricant for glass, metal, plastics, and rubber</li> <li>Demolding agent</li> </ul>		Dow Corning® 360 Medical Fluid																
			20 cSt					20	0.951	2.0	<15	>100							
			100 cSt					100	0.967	0.07	<15	>100							
			350 cSt					350	0.971	0.05	<15	>100							
			1,000 cSt					1,000	0.972	0.01	<15	>100							
			12,500 cSt				12,500	-	0.17	<15	>100								
Clear, colorless polydimethylsiloxane liquid	<ul style="list-style-type: none"> <li>Excipient in topical formulations</li> <li>Protective coating on skin</li> <li>Emollient</li> <li>Demolding agent</li> <li>Lubricant for process aid</li> </ul>		Dow Corning® Q7-9120 Silicone Fluid <sup>4</sup>																
			20 cSt					20	0.951	2.0	<15	>100							
			100 cSt					100	0.967	0.07	<15	>100							
			350 cSt					350	0.971	0.05	<15	>100							
			1,000 cSt					1,000	0.973	0.01	<15	>100							
			12,500 cSt				12,500	-	0.17	<15	>100								
White, liquid emulsion containing 35% National Formulary Dimethicone	<ul style="list-style-type: none"> <li>Water-dilutable siliconization lubricant for surface treatment or release</li> </ul>		Dow Corning® 365, 35% Dimethicone NF Emulsion					0.99	60.0										5.0
Colorless to slightly hazy liquid aminofunctional silicone dispersion with 50% active silicone ingredients; cures at room temperature between 55-60% relative humidity	<ul style="list-style-type: none"> <li>Lubricant for cutting edges and needles</li> <li>Lubricant for biomedical devices</li> <li>Surface treatment</li> </ul>		Dow Corning® MDX4-4159, 50% Medical Grade Dispersion						130	0.861	50								13.3



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<sup>1</sup> Dow Corning can provide Technical Files (or Certificates of Suitability/CEP) as needed to meet requirements.  
<sup>2</sup> "Skin Protectant Drug Products for Over-the-Counter Human Use" (21 CFR Part 347).  
<sup>3</sup> Not intended for human injection.  
<sup>4</sup> Not qualified for coating of parenteral components.

† 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.