

# NuSil MED1-6604

Silicone

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days). "Dispersion" is a term used to describe a silicone elastomer system that is suspended or dispersed in a solvent carrier. It is a complex solution that contains silicone polymers of various molecular weights and reinforcing fillers. The substituent groups comprising the polymer back bone structure may consist of the following: Polydimethylsiloxane, Dimethyl Diphenyl copolymer, and Fluoro homo polymer or copolymer. Silicone dispersions typically have low viscosities, which is beneficial for applications wherein a thin film coating is needed, and they can easily be used in dipping and spraying processes. NuSil uses a variety of solvents to disperse silicones, such as xylene, tert butyl acetate, heptane, hexane, acetone and naphtha. Comments: ONE PART, SMOOTH FINISH IN THF

General Information	
Filler / Reinforcement	Filler
Features	Low Viscosity
Uses	Coating Applications
	Medical/Healthcare Applications
Agency Ratings	USP Class VI
Forms	Dispersion
Processing Method	Dip Coating
	Spraying

Additional Information	Nominal Value	Unit
Cure System	Acetoxxy	
Uncured Properties	Nominal Value	Unit
Density	0.978	g/cm <sup>3</sup>
Viscosity	0.25	Pa · s
Curing Time (23°C)	24	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	15	
Tensile Strength	0.552	MPa
Tensile Elongation at Break	350	%
Tear Strength	2.10	kN/m

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