

NuSil MED-2014

Silicone

NuSil Technology

Message:

NuSil Technology's restricted materials may be considered for use in short-term implant applications, 29 days or less, or for external applications.

"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, IN XYLENE

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	
Mechanical	Nominal Value	Unit
Tensile Strength (200% Strain)	1.03	MPa
Additional Information	Nominal Value	Unit
Cure System	Platinum	
Uncured Properties	Nominal Value	Unit
Density	1.10	g/cm ³
Viscosity	3.5	Pa · s
Curing Time ¹	2.0	hr
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	35	
Tensile Strength	12.4	MPa
Tensile Elongation at Break	800	%
Tear Strength	32.4	kN/m
NOTE		
1.	1h/50°C + 1h/150°C	

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