

MED10-6400

Addition Cure Silicone Dispersion

Product Profile

Description

- Two-part, heat curable silicone dispersion
- 1:1 Mix Ratio (Part A: B)

Applications

- For dip casting of thin, elastomeric films

NuSil Technology's MED10-6400 is a restricted product. It shall not be considered for use in human implantation for a period of greater than 29 days.

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Clear to Translucent. Light straw to slight bluish tint.	-	D2090	002
Non-Volatile Content	35%	-	D2288	004
Solvent	Xylene	-	-	-
Viscosity	600 cP	600 mPas	D1084, D2196	001
Work Time @ 25°C	24 hours	-	-	008
Cured*: 30 min @ 25°C (77°F), 45 min @ 75°C (167°F), and 135 min @ 150°C (302°F)				
Durometer, Type A	30	-	D2240	006
Refractive Index	1.43	-	D1747, D1218	018
Tensile Strength	1,500 psi	10.3 Mpa	D412, D882	007
Elongation	775%	-	D412, D882	007
Tear Strength Die B	150 ppi	26.5 kN/m	D624	009
Stress @ 300% Strain	350 psi	2.4 Mpa	D412, D882	007

*The given ramped cure schedule is suggested to remove solvent prior to elevated temperature cure.

Instructions for Use

Mixing

Thoroughly stir individual components prior to addition to ensure homogeneity. Mix in a 1:1 ratio by weight or volume.

Warning: Consult the MSDS for MED10-6400 prior to use as its solvent carrier is hazardous.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of material being deaerated. Hold vacuum until bulk deaeration is complete.

Substrate Considerations

Cures in contact with most materials common to biomedical assemblies. Exceptions include: sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

FDA Master Access File

A Master Access File for MED10-6400 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

Packaging

- 2 Pint Kit (910 g)
- 2 Gallon Kit (7.28 kg)
- 10 Gallon Kit (36.4 kg)
- 2 Drum Kit (360 kg)

Warranty

12 Months

Warnings About Product Safety

NuSil Technology believes the information and the data contained herein are accurate and reliable. However, the user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and contact NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, obtain available product safety information and take the necessary steps to ensure safety of use.

Specifications

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

Patent Warning

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Warranty Information

NuSil Technology's warranty period is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims any other expressed or implied warranty, including warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.