

GEL-3500

Fluorosilicone gel

DESCRIPTION

- A two-part, firm fluorosilicone gel
- Available in custom formulations to offer various work times, cure schedules and penetration values to allow matching of processing techniques to production requirements while maintaining the 1:1 mix ratio

APPLICATION

- For applications requiring a gel with solvent resistance

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Translucent	-	ASTM D2090	002
Viscosity, Part A	12,000 cP	12,000 mPas	ASTM D1084, D2196	001
Viscosity, Part B	10,500 cP	10,500 mPas	ASTM D1084, D2196	001
Work Time	12 hours	-	-	008
Cured: 45 minutes at 150°C (302°F)				
Durometer, Type 00	50	-	ASTM D2240	006
Operating Temperature Range	-85 to 428°F	-65°C to 220°C	-	-

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix Parts A and B in a 1:1 ratio by weight or volume. Obtain a softer gel (high penetration value) by increasing the ratio of Part A to Part B or a firmer gel (lower penetration value) by increasing the ratio of Part B to Part A. Changes in the cure rate can result when deviating from the 1:1 mix ratio. Airless mixing, metering and dispensing equipment is recommended for production processing.

Note: Some bonding application may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Vacuum Deaeration

Removed air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being deaerated. Hold vacuum until presence of air is no longer evident.

Substrate Consideration

GEL-3500 will cure in contact with most materials. Exceptions include butyl and chlorinated rubber, some RTV silicones and unreacted residues of curing agents used with a few types of plastics.

Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. [Contact](#) NuSil Technology for details.

SPECIFICATIONS

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

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") 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 all

Packaging

50 ml SxS Kit
2 Pint Kit (910 g)

Warranty

12 Months

other expressed or implied warranties, including, but not limited to, 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.

WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. 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, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not

warrant the use or sale of the products described herein will not infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.



Polymer Systems *Technology Limited*

Silicone Sales & Services UK - Ireland - Benelux

© 2020 - **Polymer Systems Technology Limited™**

Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF

tel: +44 (0) 1494 446610

web: <https://www.silicone-polymers.com>

email: sales@silicone-polymers.co.uk

