

# Polymer Systems Technology Limited

UK & Ireland Distributor



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An ISO 9001 Certified Company

# Product Profile

## MED-6340 Firm Silicone Gel

### Description:

NuSil Technology MED-6340 is a high purity, optically clear, firm silicone gel. MED-6340 is supplied as a medium viscosity, two-component liquid that blends easily with its curing agent in a convenient 1:1 ratio by weight or volume.

CUSTOM FORMULATIONS OF THIS MATERIAL ARE AVAILABLE TO OFFER FLEXIBILITY IN WORKING TIME, CURE SCHEDULES AND PENETRATION VALUES. THIS ALLOWS MATCHING OF PROCESSING TECHNIQUES TO PRODUCTION REQUIREMENTS WHILE PRESERVING THE 1:1 MIX RATIO.

**NuSil Technology's MED-6340 is a restricted product. It shall not be considered for use in human implantation for a period of greater than 29 days.**

### Mixing:

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

NOTE: A PRIMER MAY BE REQUIRED IN SOME APPLICATIONS. NUSIL TECHNOLOGY CF1-135 SILICONE PRIMER IS RECOMMENDED.

### Vacuum Deaeration:

Air entrapped during mixing should be removed by common vacuum deaeration procedure, observing all applicable safety precautions. Apply vacuum slowly, up to 28 inches Hg, to a container rated for use and of volume at least four times the volume of material to be deaerated. Hold vacuum until presence of air is no longer visually evident.

### Typical Properties as Supplied:

Chemical Classification	VMQ
Color	Clear
Specific Gravity	0.97
Refractive Index @ 25°C (77°F)	1.406
Viscosity, cps @ 25°C (77°F)	7000
Working Time, mixed @ 25°C (77°F)	2 hours

### Typical Cured Properties:

Penetration, x 10<sup>-1</sup> mm 4<sup>(1)</sup>

(1) Cured 30 minutes @ 150°C (302°F) GCA Precision Penetrometer, 19.5 gram shaft, 6.35 mm diameter.

## Typical Cure Schedule:

MED-6340 is designed to cure at room temperature as well as at elevated temperatures. The following table illustrates the effects of temperature on cure time:

150°C (302°F)	30 Minutes
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## Caution: Cure Inhibition

The cure may be inhibited by traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide. Because organic rubbers often contain these substances, they should not come in contact with the uncured elastomer. Catalyst residues from silicone RTV elastomers and peroxide-cured silicone elastomers may also inhibit the cure.

## FDA Masterfile:

A Masterfile will be filed with the U.S. Food and Drug Administration. This masterfile will contain the results of applicable chemical and mechanical equivalency tests as well as confirmatory biological testing. Customers interested in authorization to reference these files must contact NuSil Technology.

## Packaging:

Four Hundred ML Side by Side Kit  
Two Pint Kit  
Two Gallon Kit  
Ten Gallon Kit

## Warnings About Product Safety:

NuSil Technology believes that the information and data contained herein is accurate and reliable; however, it is the user's responsibility to determine suitability and safety of use for these materials. NuSil Technology can not know the specific requirements of each application and hereby makes the user aware that it has not tested or determined that these materials are suitable or safe for any application. It is the user's responsibility 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. There has been no testing

done by NuSil Technology 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, you should review the latest Material Safety Data Sheets and contact NuSil Technology for any questions about product safety information you may have.

No chemical should be used in a food, drug, cosmetic, or medical application or process until you have determined the safety and legality of the use. It is the responsibility of the user 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, you should obtain available product safety information and take the necessary steps to ensure safety of use.

## Specifications:

The typical properties shown in this technical profile should not be used as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

## Patent Warning:

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant that the use or sale of the products described herein will not infringe the claims of any United States patents or other country's patents covering the product itself or the use in combination with other products or in the operation of any process.

## Warranty Information:

NuSil Technology's warranty period is 6 months from date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides you with 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 express or implied warranty, including warranties of merchantability and of fitness for use. Your 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, and NuSil Technology expressly disclaims any liability for incidental or consequential damages.