

Technical Data Sheet

QSiil 567 Addition Cure Potting Material

PRODUCT DESCRIPTION

QSiil 567 is a 100% silicone solids elastomer designed for electrical potting applications. The two-component system offers a hard, thermally conductive material that is readily repairable.

KEY FEATURES

- 100% solids
- Room temperature cure

TYPICAL PROPERTIES

UNCATALYZED		
PROPERTY	QSiil 567 A	QSiil 567 B
Appearance	White	Black
Viscosity	1,500 cps	1,140 cps
Specific Gravity	1.37	1.39

CATALYZED VISCISITY, 30 MINUTES AFTER CATALYZING	
MIX RATIO 1:1	
Catalyzed Viscosity at 25 °C	2,000 cps
Catalyzed Viscosity at 40 °C	2,500 cps

CURED PROPERTIES	
20 minutes at 150 °C	
PROPERTY	RESULT
Durometer	58, Shore A
Tensile	310 psi
Elongation	85%
Tear	18 pli
Young's Modulus	425 psi

ELECTRICAL PROPERTIES	
PROPERTY	RESULT
Dissipation Factor	0.003
Dielectric Constant at 1,000 Hz	3.12
Volume Resistivity	1.47 x 10 ¹⁵ ohm-cm

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UL RATING **	
UL 94 V-0	3.0 mm
UL 94 V-1	1.5 mm

THERMAL PROPERTIES **	
PROPERTY	RESULT
Thermal Conductivity **	0.37 W/m-K
Useful Temperature Range	-55 – 204 °C

** Results based on similar material.

MIXING

In order to achieve optimum performance, the same lot number of QSil 567 A and QSil 567 B should be used.

QSil 567 A and QSil 567 B should be thoroughly mixed prior to catalyzation.

Mixing by hand:

Catalyze QSil 567 A with QSil 567 B at a 1:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand.

Mixing and dispensing with automatic equipment:

Use a mixing system that will properly mix the QSil 567 A and QSil 567 B at a 1:1 ratio by weight.

DE-AERATION

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand, and intermittent evacuation may be required.

Machine mixed material does not normally need to be de-aired.

STORAGE AND SHELF LIFE

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

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DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. CHT USA's team accepts opportunities to either modify specifications in a current product or custom formulate a new one to meet your requirements. For sales and technical assistance, please contact us at: **(804) 271-9010** or **1-800-852-3147**.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more:

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