

Technical Data Sheet

QSiil 568 Addition Cure Potting Material

PRODUCT DESCRIPTION

QSiil 568 is a 100% silicone semi-thixotropic compound designed for potting and encapsulation applications.

KEY FEATURES

- 100% solids
- One-hour gel time
- Semi-thixotropic
- Heat cure required

TYPICAL PROPERTIES

UNCATALYZED		
PROPERTY	QSiil 568 A	QSiil 568 B
Appearance	White	Black
Viscosity	110,000 cps	3,000 cps
Specific Gravity	1.48	0.98

CATALYZED	
MIX RATIO 10:1	
Gel Time at 25 °C *	60 minutes

* Gel time is defined as the time required for the material to become a solid or semi-solid.

HEAT CURED PROPERTIES	
17 minutes at 150 °C	
PROPERTY	RESULT
Durometer	50, Shore A
Tensile	450 psi
Elongation	200%
Useful Temperature Range	-55 °C – 204 °C

ELECTRICAL PROPERTIES	
PROPERTY	RESULT
Dissipation Factor	0.009
Dielectric Constant at 1,000 Hz	3.27
Dielectric Strength	575 mil
Volume Resistivity	6.02×10^{15} ohm-cm

Technical Data Sheet

MIXING

In order to achieve optimum performance, the same lot number of QSil 568 A and QSil 568 B should be used.

QSil 568 B should be thoroughly mixed prior to catalyzation.

Mixing by hand:

Catalyze QSil 568 A with QSil 568 B at a 10:1 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 568 A and QSil 568 B at a 10:1 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.

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:

www.silicone-experts.cht.com
www.quantumsilicones.com

CHT USA - Richmond, 7820 Whitepine Road, Richmond, VA 23237

Manufacturing and R&D Facility, 8021 Reycan Road, Richmond, VA 23237