



Technical Data Sheet

QSi 568

Addition Cure Potting Material

PRODUCT DESCRIPTION

QSi 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	QSi 568 A	QSi 568 B
Appearance	White	Black
Viscosity	80,000 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, Shore A	50
Tensile	450 psi
Elongation	200 %
Useful temperature range	- 55°C – 204°C

ELECTRICAL PROPERTIES	
PROPERTY	RESULT
Dielectric constant @ 1000Hz	3.27
Volume resistivity	6.02×10^{15} ohm-cm
Dissipation factor	0.009
Dielectric strength	575 V/mil



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MIXING

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

QSi 568 B should be thoroughly mixed prior to catalyzation.

Mixing by hand:

Catalyze QSi 568 A with QSi 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 QSi 568 A and QSi 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

If QSi 568 A and QSi 568 B are stored in their original unopened containers, in an environment that does not exceed 38°C (100°F) then QSi will warranty the material for a period of 12 months from the date of shipment.



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DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service at **(804) 271-9010** or **1-800-852-3147**.

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