

Technical Data Sheet

QSiil 266 Addition Cure Potting Material

PRODUCT DESCRIPTION

QSiil 266 is a two-component 100% silicone solids elastomer designed for electronic potting applications. The system offers a hard, thermally conductive, low modulus material that is readily repairable.

KEY FEATURES

- 100% solids, no solvents
- Excellent thermal conductivity
- Heat cure required

TYPICAL PROPERTIES

UNCATALYZED		
TEST	QSiil 266 A	QSiil 266 B
Appearance	Brown	Brown
Viscosity	100,000 cps	100,000 cps
Specific Gravity	2.10	2.19

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel time at 25°C *	> 24 hours

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

CURED PROPERTIES	
15 Minutes at 150°C	
TEST	RESULT
Durometer, Shore A	60
Tensile	200 psi
Elongation	75 %

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CURE SCHEDULE**	
TEMPERATURE	TIME
150 °C	20 minutes
120 °C	40 minutes

**Material is not designed to cure at room temperature. Material may not reach full physical properties including adhesion, if cured below the minimum recommended cure temperature. These are recommended cure times only with actual cure times and temperatures dependent on the quantity of material being used and the shape of the part being made.

ADDITIONAL PROPERTIES	
Useful Temperature Range	-55 °C – 204 °C
Thermal Conductivity	0.88 W/m-K
Flammability (based on similar product performance)	3.00 mm V-0
	1.5 mm V-1

MIXING

Combine equal parts of QSil 266 A and QSil 266 B by weight into a clean, compatible container and mix by hand or with mixing equipment until a uniform consistency is observed. The material should have a uniform color with no visible striations. Use caution when mixing to minimize air entrapment.

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. Typically, after releasing the vacuum 2 - 3 times, the mass will collapse on itself at which time the vacuum should be left on for an additional 2 - 4 minutes.

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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