



Technical Data Sheet

QSi 1000

43 Shore A, Addition Cure, Self-Bonding, One Part Siloxane Elastomer

PRODUCT DESCRIPTION

QSi 1000 is a one-component, self-bonding elastomer that has excellent adhesion to many substrates, and is designed for use in applications up to 300°C.

KEY FEATURES

- 100% solids - no solvents
- Fast cure at elevated temperatures
- Good abrasion resistance
- Primerless adhesion to many substrates
- Low viscosity
- Material must be heat cured

TYPICAL PROPERTIES

UNCATALYZED	
TEST	QSi 1000
Appearance	Red
Viscosity	38,000 cps
Specific Gravity	1.43

CURED PROPERTIES	
30 minutes at 150°C	
PROPERTY	RESULT
Durometer, Shore A	43
Tensile	425 psi
Elongation	180 %
Useful temperature range	- 60°C – 300°C

CURE PROFILE*	
TEMPERATURE	TIME
200°C	20 minutes
150°C	40 minutes
100°C	60 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.



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MATERIAL USE

This material is a one-component, red, heat-cured silicone elastomer. The material should only be used on clean surfaces to maximize adhesion properties. In addition, some substrates may be difficult to bond to and some, such as galvanized metal, may cause cure inhibition. When this occurs, a primer can be used to eliminate this problem.

STORAGE AND SHELF LIFE

If QSi 1000 is stored in its original unopened container, in an environment that does not exceed 4°C (40°F) then QSi will warranty the material for a period of 12 months from the date of shipment. If the material is stored in its original unopened container at temperature less than 80°F, then QSi will warranty the material for a period of 3 months from date of shipment.

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**.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more! www.quantumsilicones.com

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