

Technical Data Sheet

QSi1 1000 43 Shore A, Addition Cure, Self-Bonding, One Part Siloxane Elastomer

PRODUCT DESCRIPTION

QSi1 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	QSi1 1000
Appearance	Red
Viscosity	38,000 cps
Specific Gravity	1.43

CURED PROPERTIES	
30 minutes at 150 °C	
PROPERTY	RESULT
Durometer	43, Shore A
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, if cured below the minimum recommended cure temperature. Temperatures below 150 °C will not produce full adhesion. 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

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 4.4 °C (40 °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