



Technical Data Sheet

QSi 1000

*Quantum Silicones'43 DurometerClear, Addition Cure,
Self-Bonding, 1-part Siloxane Elastomer*

Product Description

QSi 1000 is a 1-component, self-bonding elastomer that has excellent adhesion to many substrates and is designed for use in applications up to 300C.

Key Features

- 100% solids – no solvents
- Fast cure at elevated temperatures
- Good abrasion resistance
- Primerless adhesion to many substrates
- Low Viscosity
- Useful temperature range to 300C

Typical Properties

Uncatalyzed Properties

Viscosity, cps	38,000
Appearance	Red
Specific Gravity, g/cm ³	1.43

Catalyzed Properties (cured 30 min. @ 150C)

Durometer, Shore A	43
Tensile, psi	425
Elongation, %	180
Useful Temperature Range	-60C – 300C

Cure Conditions	
200C	20 minutes
150C	40 minutes
100C	60 minutes

The times and temperatures listed above are reported with regard to full property formation and maximum adhesion to Aluminum. Other substrates may require modified cure times/temperatures to obtain maximum adhesion.

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

QSil 1000 should be stored in the original unopened container at <40F. It will remain useful for a period of 6 months if stored under those conditions.

Not for Product Specification

The technical data listed herein is provided as a reference only and is not intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-800-852-3147.

Quantum Silicones
8021 Reycan Rd
Richmond, VA 23237
Phone (804) 271-9010 Fax (804) 271-9055
Customer Service (800)852-3147
www.quantumsilicones.com