



Technical Data Sheet

QSi 217

Quantum Silicones' Transparent Liquid Silicone Rubber

Product Description

QSi 217 is a 2 part, clear liquid silicone which will cure at room temperature or at elevated temperatures. This product is supplied in matched kits in a 1 to 1 ratio of A to B.

Key Performance Properties

- Convenient 1:1 mixing ratio for use in automatic dispensing equipment or hand mixing
- Low viscosity which allows for ease of flow around complex parts, providing electrical insulation and shock resistance
- Contains no solvents
- The chemical composition provides hydrolytic stability and reversion resistance

Uncured Properties

	<u>QSi 217A</u>	<u>QSi 217</u>
Color	Clear	Clear
Viscosity, cps	360	300
Specific Gravity	0.97	0.97

Uncured Properties with curing agent added

Color	Clear, colorless
Consistency	Easily pourable
Work Time	20minutes

Cured Properties (cured 1 hour @ 100°C/212°F)

Hardness, Shore A	23
Coefficient of Thermal Expansion	$1.44 \times 10^{-3} \text{cc/cc/C}$
Thermal Conductivity	0.18
Shrinkage	~0.1
Refractive Index	1.406

Electrical Properties

Dielectric Strength, v/mil	480
Dielectric Constant @ 1000Hz	3.0
Dissipation Factor @ 1000Hz	0.001
Volume resistivity, ohm- cm	1. x 10 ¹⁵

Thermal Properties

Useful Temperature Range	-55to 200C
Specific Heat, cal/gm,C	0.3

All data is typical data and should not be used for specifications. Please contact a technical representative of Quantum Silicones for assistance.

Instructions for Use

Mixing

Weigh 1parts of A to 1 part of B. The mixing container should be 4 to 5 times larger than the volume of silicone. Using clean tools, thoroughly mix the A and B components. Air entrapped during mixing should be removed using vacuum equipment capable of achieving a vacuum of 29 inches of mercury.

QSil 217 should be stored in the original unopened container at 25C (77F). It will remain useful for a period of 12 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