



# Technical Data Sheet

## QGel 303

Fast Cure, High Strength Silicone Gel

### PRODUCT DESCRIPTION

QGel 303 is a very soft, tough, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration, thermal or mechanical shock. Silicone gels also provide excellent moisture protection.

### KEY FEATURES

- Soft gel
- One to one mix ratio
- Fast nine minute gel time at room temperature

### TYPICAL PROPERTIES

UNCATALYZED		
TEST	QGel 303 A	QGel 303 B
Appearance	Transparent Blue	Transparent Red
Viscosity	700 cps	745 cps
Specific Gravity	0.97	0.97

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time at 25°C	9 minutes
Work life *	4.2 minutes

\* Work life is defined as the time required for the material to double in viscosity.

CURED PROPERTIES	
Penetration, 30 minutes at 150°C	4 – 8 mm
Penetration, 60 minutes at 25°C	4 – 8 mm

ELECTRICAL PROPERTIES	
Dielectric strength	500 V/mil
Dielectric constant, 1000Hz	2.8
Dissipation factor, 1000Hz	0.001
Volume resistivity, Ohm-cm	1 X 10 <sup>15</sup>



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### MIXING

QGel 303 should be thoroughly mixed using a 1:1 ratio by weight. Once the components are mixed the curing process begins. The gel time of the mixed material is listed above under typical properties. Fast curing gels (less than 30 minute gel time) should be dispensed utilizing automated mix and dispense equipment.

### DE-AERATION

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum de-airing may be necessary to completely remove all entrapped air bubbles. To ensure proper de-airing, subject the mixed material to 29 inches of mercury.

### STORAGE AND SHELF LIFE

If QGel 303 A and QGel 303 B are stored in their original unopened containers, in an environment that does not exceed 38°C (100°F) then QSi will warranty the material for a period of 12 months from the 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.

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