



Technical Data Sheet

8021 Reycan Road
Richmond, VA 23237
Phone: 804-271-9010
FAX: 804-271-9055
Toll free: 800-852-3147

QGel 317 General Purpose Silicone Gel

PRODUCT DESCRIPTION

QGel 317 is a very soft, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration and thermal or mechanical shock. Silicone gels also provide excellent moisture protection.

KEY FEATURES

- One to one mix ratio
- Fast cure
- Soft but resilient
- Designed for mechanical dispensing

TYPICAL PROPERTIES

UNCATALYZED		
TEST	A	B
Appearance	Clear	Transparent
Viscosity	1000 cps	1000 cps
Specific Gravity	0.97 g/cm ³	0.97 g/cm ³

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time, 25C	5-10 minutes

CURED PROPERTIES	
Cure Profile	5 minutes at 150C
	10 minutes at 100C
	60 minutes at 25C
Penetration, 30 minutes at 150C	13 - 20 mm

ADDITIONAL PROPERTIES	
Service Temperature Range	-55 to 200C
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates.
Electrical Properties	Excellent dielectric strength



Technical Data Sheet

8021 Reycan Road
Richmond, VA 23237
Phone: 804-271-9010
FAX: 804-271-9055
Toll free: 800-852-3147

MIXING

QGel 317 should be thoroughly mixed using a 1:1 ratio by weight or by volume. 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. The use of mixing equipment is recommended for this product.

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 insure proper de-airing, subject the mixed material to 29 inches of mercury.

STORAGE AND SHELF LIFE

If QGel 317A and QGel 317B are stored in an environment that does not exceed 25C (77F) then QSi will warranty the material for a period of one year 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.

Visit our website at www.quantumsilicones.com.