



Technical Data Sheet

TufGel 332

High Strength Silicone Gel

PRODUCT DESCRIPTION

TufGel 332 is a clear, tough, moderately cross-linked silicone elastomer, which has good room temperature cure adhesion to many substrates. This material also has enhanced flame retardant properties compared to standard gels. 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
- High strength
- Dispensing equipment not necessary
- Non-yellowing catalyst system
- Good adhesion to many substrates including glass, aluminum and copper with primer

TYPICAL PROPERTIES

UNCATALYZED		
TEST	TufGel 332 A	TufGel 332 B
Appearance	Transparent	Transparent
Viscosity	820 cps	750 cps
Specific Gravity	0.97	0.97

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time at 25°C *	5 hours

* Gel time is defined as the time required for the material to become a solid or a semi-solid.

CURE PROPERTIES	
Cure Profile	30 minutes at 150°C
	60 minutes at 100°C
	24 hours at 25°C
Durometer, shore 00, 30 minutes at 150°C	30 - 55

ADDITIONAL PROPERTIES	
Service Temperature Range	-55°C - 204°C
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates.
Electrical Properties	Excellent dielectric strength



Technical Data Sheet

MIXING

TufGel 332 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.

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 TufGel 332 A and TufGel 332 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.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more! www.quantumsilicones.com

Quantum Silicones Headquarters
7820 Whitepine Road
Richmond, VA 23237

Manufacturing, Research and Development Facility
8021 Reycan Road
Richmond, VA 23237

Phone: 804-271-9010
Fax: 804-271-9055
Toll Free: 800-852-3147