



Data Sheet
QSil 215

TRANSPARENT LIQUID SILICONE RUBBER

Product Description

Q Sil-215 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 10 to 1 ratio of A to B.

Key Features

- Convenient 10:1 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>Q Sil – 215A</u>	<u>Q Sil – 215B</u>
Color	Clear	Clear
Viscosity, cps	5000	1000
Specific Gravity	1.02	1.00

Catalyzed Properties

Color	Clear, colorless
Consistency	Easily pourable
Work Time	4 hours

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

Hardness, Shore A	40
Tensile Strength, psi	700
Elongation, %	100
Shrinkage	~0.2
Refractive Index	1.406

Electrical Properties

Dielectric Strength, v/mil	500
Dielectric Constant @ 1000Hz	2.69
Dissipation Factor @ 1000Hz	0.0006
Volume resistivity, ohm-cm	1.7×10^{15}

Thermal Properties

Useful Temperature Range	-60 to 200C
Thermal Conductivity, Wm-K	0.18
Coefficient of Expansion	27.5×10^{-5}
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 10 parts 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.