



Sn63/Pb37  
Q-BAR &  
EQUALIZER  
BAR SOLDER

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**Description**

Qualitek® Q-Bar is available in standard leaded alloys, such as Sn63/Pb37 and Sn60/Pb40. Both Qualitek Q-Bar and Equalizer bar are made from Grade-A virgin metals. Sn63/Pb37 alloy is the conventional eutectic solder used in most electronic assemblies.

**Physical Properties**

**Solder Composition**

Qualitek® Sn63/Pb37 Q-Bar and Equalizer Bar conform to and exceed the impurity requirements of IPC-J-STD-006C and all other relevant international standards.

Typical Analysis													
Sn	Ag	Cu	Pb	Sb	Bi	In	As	Fe	Ni	Cd	Al	Zn	Au
62.5 -63.5	0.100 Max	0.080 Max	Bal	0.200 Max	0.100 Max	0.100 Max	0.030 Max	0.020 Max	0.010 Max	0.002 Max	0.005 Max	0.003 Max	0.050 Max

	Sn63/Pb37
Melting Point, °C	183 E
Hardness, Brinell	14 HB
Coefficient of Thermal Expansion	24.7
Tensile Strength, psi	4442
Density, g/cm <sup>3</sup>	8.42
Electrical Resistivity, (μΩ-cm)	14.5
Electrical Conductivity, 10 <sup>4</sup> /ohm-cm	6.9

	Sn63/Pb37
Yield Strength, psi	3950
Total Elongation,%	48
Joint Shear Strength, at 0.1mm/min 20 °C	23
Joint Shear Strength, at 0.1mm/min 100 °C	14
Creep Strength, N/mm <sup>2</sup> at 0.1mm/min 20 °C	3.3
Creep Strength, N/mm <sup>2</sup> at 0.1mm/min 100 °C	1
Joint Fatigue Cycle, 15N/mm <sup>2</sup> 20 °C	1100
10N/mm <sup>2</sup> 100 °C	900

**Handling & Storage**

Solder bar storage should be in a 65-80 °F environment away from direct heat. We recommend using gloves when handling solder bar directly. Solder bar has an indefinite shelf life.

**Packaging**

Sn63/Pb37 solder bar is available in

- Box of 10      2.2 Lb. bar (1 kg) Kilobar
- Box of 5      11 Lb. bars (5 kg) Equalizer

**Disposal**

Sn63/Pb37 Q-Bar and Equalizer solder bar should be disposed of in accordance with federal, state & local authority requirements.

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