



LEAD FREE Solder Bar/Solid Wire

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Physical Properties

Solder Composition

Qualitek LF965-30 (Tin/Silver/Cu) is designed as a lead-free alternative for Sn/Pb alloys for electronics assembly operations. The Qualitek LF965-30 alloy conforms and exceeds the impurity requirements of J-Std-006 and all other relevant international standards. Qualitek Q-Bar and Equalizer Bar are made from Grade A virgin metals. Quality standards for all Q-Bar/Wire exceed J-Std-006, ASTM B-32 and QQ-S-571.

Typical Analysis													
Sn	Ag	Cu	Pb	Sb	Bi	In	As	Fe	Ni	Cd	Al	Zn	Au
Bal	2.8-3.2	0.3-0.7	0.050 Max	0.050 Max	0.050 Max	0.050 Max	0.010 Max	0.010 Max	0.005 Max	0.001 Max	0.001 Max	0.001 Max	0.002 Max

	LF965-30*	Sn63/Pb37
Melting Point, ° C	219-221	183 E
Hardness, Brinell	15HB	14HB
Coefficient of Thermal Expansion	Pure Sn= 23.5	24.7
Tensile Strength, psi	4312	4442
Density, g/cc	7.39	8.42
Electrical Resistivity , (μohm-cm)	13.0	14.5
Electrical Conductivity, %IACS	16.6	11.9

	LF965-30*	Sn63/Pb37
Yield Strength, psi	3724	3950
Total Elongation,%	27	48
Joint Shear Strength, at 0.1mm/min 20 C	27	23
Joint Shear Strength, at 0.1mm/min 100 C	17	14
Creep Strength, N/mm ² at 0.1mm/min 20 C	13.0	3.3
Creep Strength, N/mm ² at 0.1mm/min 20 C	5	1
Thermal Conductivity, W/m.K	58.7	50.9

* Data presented is of Sn95.5/3.8/0.7

Available Wire Diameters

Diameter/in	0.125	0.092	0.062	0.050	0.040	0.032	0.025	0.020	0.015	0.010
Diameter/mm	3.18	2.34	1.57	1.27	1.02	0.81	0.64	0.51	0.38	0.25
Std. Wire Gauge	11	13	16	18	19	21	23	25	28	31

Storage & Shelf Life

It is recommended bar and solid wire be stored in a cool dry area away from any heat source.

Shelf life Indefinite

Packaging

Bar

Box of 20 -2.2 lb Bar (1 kg)

Box of 5- 11 lb. Bar (5 kg) *Equalizer*

Solid Wire

Box of 25
 1 lb Spool
 4 lb Spool
 20 lb Spool