TECHNICAL DATA SHEET Sn100e Solder Bar, Rev. 0, 05/18





SN100^e LEAD FREE SOLDER BAR

CORPORATE HEADQUARTERS USA: 315 Fairbank St. Addison, IL • 630-628-8083 • FAX 630-628-6543 EUROPE UK: Unit 9 Apex Ct. Bassendale Rd. Bromborough, Wirral CH62 3RE • 44 151 334 0888 • FAX 44 151 346 1408 ASIA-PACIFIC HEADQUARTERS SINGAPORE: 6 Tuas South St. 5 Singapore 637790 • 65 6795 7757 • FAX 65 6795 7767 PHILIPPINES: Phase 1 Qualitek Ave. Mariveles, Bataan Philippines C-2106 • 6347 935 4163 • FAX 63475613717 CHINA: 3B/F, YiPa Print Bldg. 351 # JiHua Rd., Buji Shenzhen, China 518112 • 86 755 28522814 • FAX 86 755 28522787

Description

Qualitek[®] lead free solder bar Sn100^e is manufactured from tin, copper and cobalt and processed to create a solder that exceeds most purity specification requirements. Lead free solder alloy, Sn99.5/Cu0.5/Co is used primarily in printed circuit board assembly and is RoHS compliant. Sn100^e is specifically designed for use in all wave soldering, tinning and dip applications. This alloy provides brighter, shinier joints (less grainy) when compared to SAC305 alloy.

Physical Properties

Solder Composition

Qualitek Sn100^e (Sn99.5/Cu0.5/Co) is designed as a lead-free alternative for Sn/Pb alloys for electronics assembly operations. Qualitek Sn100^e alloy conforms and exceeds 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	Со
Bal	0.100 Max	0.3- 0.7	0.070 Max	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	0.07 Max

	Sn100e			
Melting Point, °C	228 E			
Hardness, Brinell	9 HB			
Coefficient of Thermal Expansion	22 x 10 ⁻⁶			
Tensile Strength, MPa	28			
Yield Strength, MPa	21			
Density, g/cc	7.40			
Electrical Resistivity, (µohm-cm) at 25 °C	0.123			
Thermal Conductivity, (W/m.K) at 25 °C	82			

Storage and Shelf Life

Qualitek Sn100^e solder bar storage should be in a cool, dry environment away from direct heat. We recommend using gloves when handling solder bar directly. Solder bar has an indefinite shelf life.

Packaging

Sn100^e solder bar is available in

Box of 20 2. lb. bars

Disposal

Sn100^e solder bar should be disposed of in accordance with federal, state and local authority requirements.

Qualitek[®] is a registered trademark of Qualitek International, Inc.