



A Worldwide Manufacturer of Soldering Products

# NC601E - SN100e Solder wire

## Benefits

**Lower Cost.**

**Bright Solder joints.**

**Longer Solder tip life when compared to SAC alloys.**

**Good Solder Wetting.**

**Virtually no residue.**

Qualitek's lead free solder wire NC601E - SN100e has been developed as a low cost lead free alternative for those now using costly SAC alloys and for those using lead containing alloys who are moving on to lead free processes. Utilising a small amount of cobalt in the alloy assists with the solder wetting while also promoting longer solder tip life, by reducing corrosion.

The SN100e gives soldering results comparable with the more expensive SAC alloys at a much reduced cost.

The SN100e is compatible with all SAC and Sn/Cu alloys and performs with ENIG, immersion tin, immersion silver, OSP and hot air leveled board finishes.

## SN100e Physical Properties

Composition	Sn99.5/Cu0.5/Co	
Melting Point	228C	Available in the following sizes
Density	7.4	0.25-0.38-0.5-0.8-1.0-1.27-1.57mm
Tensile Strength	28 Mpa	
CTE	23.5	Flux Content 2.2%
Electrical Resistivity	0.123 Micro Ohm-m	
Thermal Conductivity	82 (j/-m-s-k)	

Qualitek has developed a unique flux system designed specifically for high temperature lead free alloys. It provides the fluxing activity levels that promote fast wetting action. Utilising Organic flux with a very effective non halide activator, NC601E wets like an RA type. NC601E exhibits virtually no spattering. NC601E conforms to J-STD-004. ORLO / EN 29454-1 type 2.1.3

	<u>Specification</u>	<u>Test Method</u>
Flux Classification	ORLO	JSTD-004
Flux Classification	Type 2.1.3	EN29454-1
Copper Mirror	No Removal	IPC-TM-650 2.3.32
Silver Chromate	Pass	IPC-TM-650 2.3.33
Corrosion	Pass	IPC-TM-650 2.6.15
SIR-Jstd-004,pattern down	1.0 x 10 <sup>9</sup>	IPC-TM-650 2.6.3.3
Acid Value	350-370	IPC-TM-650 2.3.13
Flux Residue Dryness	Pass	IPC-TM-650 2.4.48

Qualitek Europe Ltd  
 Unit 9, Apex Court,  
 Bassendale Road,  
 Bromborough,  
 Wirral CH62 3RE.  
 Tel 0044(0)151-334-0888  
 Fax 0044(0)151-346-1406



E-Mail [sales@qualitek-europe.com](mailto:sales@qualitek-europe.com)  
 Web [www.qualitek.com](http://www.qualitek.com)