



A Worldwide Manufacturer of Soldering Products

NC600 - SN100e Solder wire

Benefits Lower Cost

Clear Residues

Bright Solder joints

Longer Solder tip life when compared to SAC alloys

Good Solder Wetting

Good Solder Spread

Qualitek's lead free solder wire NC600 - 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% & 3.3%
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 and maximum wetting spread. Utilising a modified rosin with a very effective non halide activator, NC600 wets and spreads like an RA type. NC600 exhibits virtually no spattering. NC600 conforms to J-STD-004/EN29454-1

	<u>Specification</u>	<u>Test Method</u>
Flux Classification	RELO	JSTD-004
Flux Classification	Type 1.1.3	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	2.33 x 10 ¹¹	IPC-TM-650 2.6.3.3
Bellcore(Telecordia)	6.12 x 10 ¹¹ ohms	Bellcore GR-78-CORE 13.1.3
Electromigration	Pass	Bellcore GR-78-CORE 13.1.4
Acid Value	190-210	IPC-TM-650 2.3.13
Flux Residue Dryness	Pass	IPC-TM-650 2.4.48

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