

Finest Performing Lead Free Wire Solder Ever!

NC600 LEAD FREE

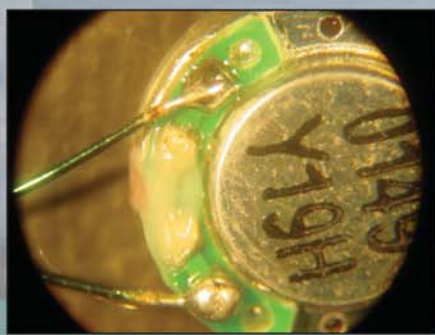
SN100e™

WIRE SOLDER

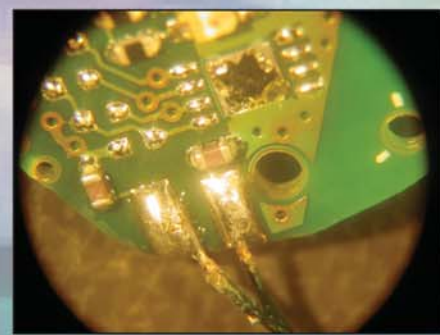
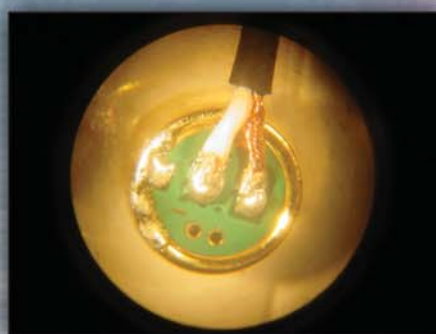
EXPERTS CHOICE



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Superior Volume



Excellent Wetting

QUALITEK®

Global Soldering Solutions
www.qualitek.com

Sn100^e Wire Solder is gaining rave reviews

From: [Redacted]
Sent: [Redacted]
To: [Redacted]
Cc: [Redacted]
Subject: [Redacted] Certified IPC Trainer

Hello John,

I have conducted an impartial and unbiased product evaluation on three different types of lead free solder and one of them was on the Qualitek samples you provided.

My personal credentials and qualifications are as follows: Certified IPC Trainer in J-standard-001D & DS (Space Electronics Hardware addendum) (NASA compliant trainer), A-610, A-600, A-620, 7711/7721 Rework. I am being certified shortly as an MIT (Master IPC Trainer). I have an extensive rework background in fine pitch.

I have professionally evaluated the following products using a Pace MBT 301 with a medium size chisel tip at 700 F. Photo attachments are included.

- 1) Qualitek Sn 100E .032 Dia. NC600-Sn 100E-032A
- 2) Competitor A .032 Dia. [Redacted]
- 3) Competitor K .031 Dia. [Redacted]

All products tested on plated through hole training board with radial leaded components. All products tested superior to SAC alloy. My evaluation reveals that Qualitek exhibits better wetting, better wetting contact angles, superior flow, visual appearance and identical performance characteristics to that of a quality no clean 63/37 tin lead. This Qualitek Sn 100E is the finest performing lead free product that I have ever tested in my professional career.

My second choice was the [Redacted] and the [Redacted] is average. Anyone who swears by this [Redacted] needs to try the Qualitek Sn 100E and they will never touch [Redacted] again. The Sn 100E is an incredible lead free and in my opinion the very best to date, beyond any doubt. Very well done Qualitek!

Regards,

[Redacted]
Consultant / Certified IPC Trainer
Soldering Technology Department
[Redacted]



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ISO 9001:2008 Certified

Subject: Comparison of various hand soldering assemblies from plantronics between [Redacted] & Qualitek lead free soldering wire various assemblies.

- Below are the summaries of our observations on the solder joints of various assemblies.
- A) Hot QD:
Qualitek - Solder fillets on each connections look smooth and fairly uniform compared to [Redacted].
[Redacted] - The solder fillets on each connections look bulky with excessive volume.
 - B) Encore PRO:
Qualitek - Solder joints showed good wetting and smooth appearance.
[Redacted] - Some dewettings are observed. This could be due to the Presence of bismuth which hinders the flow.
 - C) Encore -Flex circuit with plastic housing:
Both Qualitek and [Redacted] solder joints are generally inconsistent in wetting, excessive and insufficient solder fillets. This could be due to the difficulties in handling flex circuits.
 - D) Encore (Aluminum Cap):
Both Qualitek and [Redacted] showed good wetting and good fillets on solder joints. The quality of solder joints is hard to distinguish between Qualitek and [Redacted].
 - E) Mumbai:
[Redacted] exhibits some minor dewetting and dull joints while Qualitek showed good wetting.
 - F) Supra Plus:
Similar to Mumbai, [Redacted] has minor dewetting while Qualitek showed good wetting.
 - G) No- Name PN # 28291-22:
The quality of solder joints on both Qualitek and [Redacted] look acceptable in wetting and volume of solder. They are quite comparable, except [Redacted] joints are slightly dull.
- >> Overall Assessment:
>> Based on the overall observations and microscopic examination, Qualitek lead free solder wire 100e showed superior wetting activity >> with brighter and shinier solder connections than [Redacted] wire >> containing bismuth.
>> Photographs of each soldering assemblies are attached.
>> [Redacted] solder wire was excused from further examination based upon the initial visual inspection and overall quality of solder joints. [Redacted] did not warrant further consideration.

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