

# Nitrosol SN100SB

**Lead Free, No Clean  
Cored Solder Wire**

## DESCRIPTION

**Nitrosol SN100SB** is a unique alloy and fluxing system, giving bright, shiny solder joints with a minimum amount of non-corrosive flux residue.

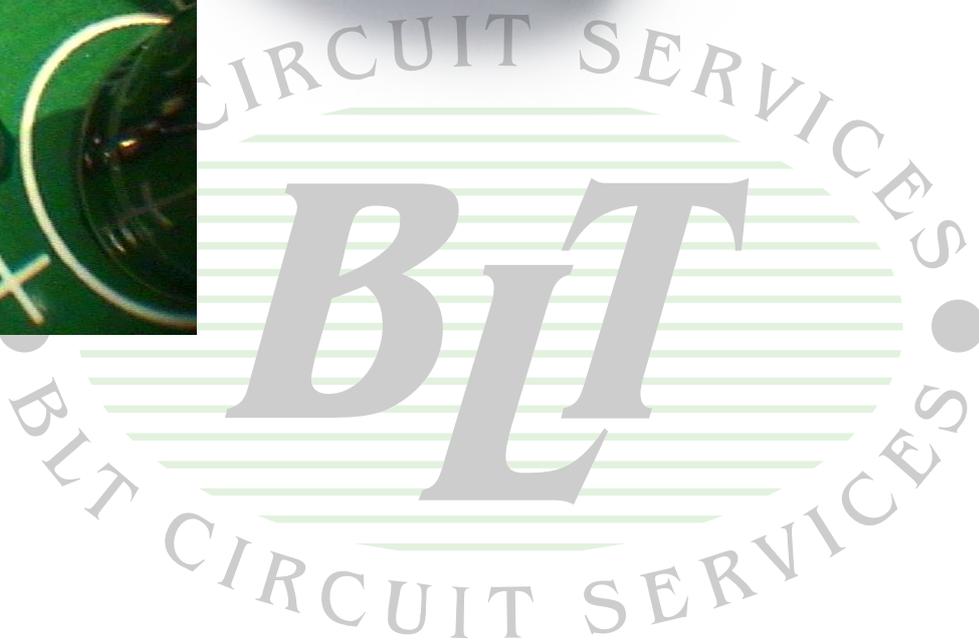
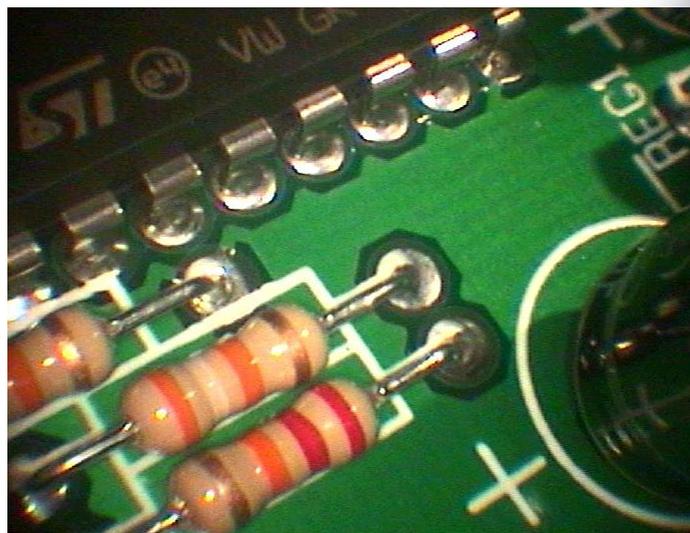
**Nitrosol SN100SB** has been formulated to produce very fast solder wetting, with low flux spatter and minimal fumes.

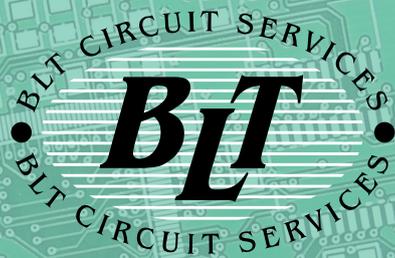
**Nitrosol SN100SB** residues are clear non-conductive, non-tacky and non-hygroscopic.

**Nitrosol SN100SB** alloy offers users a brighter solder joint than SAC alloys with considerably lower copper dissolution effect, which in turn produces a more robust and reliable solder joint.

## BENEFITS

- Rapid wetting
- Reduced flux spatter
- Clear non-tacky residue
- Excellent joint appearance
- Low fume level
- Available in 0.25, 0.5, 0.7, 1.0 & 1.2mm diameters





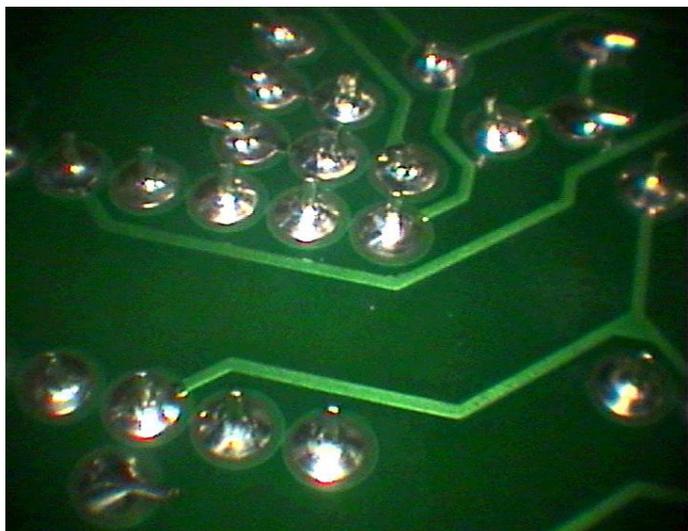
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## PRODUCT INFORMATION AND TECHNICAL DATA

### Physical Properties

<b>Flux Acid Value</b>	180-200 mg KOH/g
<b>Flux Type</b>	ROL1
<b>Flux Content</b>	1.5% and 2.2% (other flux contents available on request).



### Typical Solder Analysis

<b>Sn</b>	99.0%	<b>Ni</b>	0.04%
<b>Sb</b>	0.22%	<b>Fe</b>	0.001%
<b>Cu</b>	0.60%	<b>Zn</b>	0.001%
<b>Ag</b>	0.07%	<b>Al</b>	0.0005%
<b>Bi</b>	0.05%	<b>Pb</b>	0.01%

Solder Hardness 11.870 HV (using a 1 kilo load).

Solder Melting Point 227°C

### Warranty

All reasonable endeavours have been made to ensure that the information contained in this data sheet is accurate, but it is submitted on the express condition that BLT Circuit Services Ltd. shall be under no liability whatsoever in respect thereof or for any loss, injury, damage or liability of whatsoever nature arising, suffered or incurred as a consequence of its use.

### Electrical Reliability

Test	Requirement	Result
JIS SIR Test (JIS-Z-3197)	$1.0 \times 10^{11} \Omega$ minimum	PASS
Bellcore SIR Test (GR-78-core)	$1.0 \times 10^8 \Omega$ minimum	PASS
IPC SIR Test (J-STD-004A)	$1.0 \times 10^8 \Omega$ minimum	PASS
IPC SIR Test (J-STD-004B)	$1.0 \times 10^8 \Omega$ minimum	PASS

### Chemical Reliability

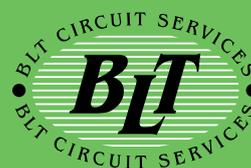
Test	Requirement	Result
Copper Corrosion Test (IPC-TM-650-2.6.15)	No evidence of corrosion	PASS
Copper Mirror Test (IPC-TM-650-2.3.32)	No complete removal of copper	PASS

### Application and Handling

1. Typical solder tip temperature should be between 400°C and 450°C but should be determined to suit solder tip size and component size.
2. The soldering process will generate a small amount of fumes and decomposition products that must be removed from the operators area using, a local extraction system.
3. Do not eat or smoke when using the product and use only in a well-ventilated area.

### Alternative Alloys Available

SACP305 (SAC305 Sn96.5, Ag3, Cu0.5) and also available in 63/37 LEADED and 62/36/2 LEADED with flux content of 1.6%.



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