



NC258 Sn62 and Sn63



No Clean Solder Paste

Features:

- Long Pause-to-Print Capabilities
- Enhances Fine Print Definitions
- No Head-in-Pillow
- Excellent Wetting, Even Leadless Devices
- Reduced Voiding

Description:

NC258 has been developed to offer long pause-to-print capabilities while enhancing fine print definitions. NC258 reduces such defects as voiding and eliminates head-in-pillow. The superior wetting ability of NC258 results in bright, smooth and shiny solder joints. It also offers very low post process residues, which remain crystal clear after soldering.

Printing:

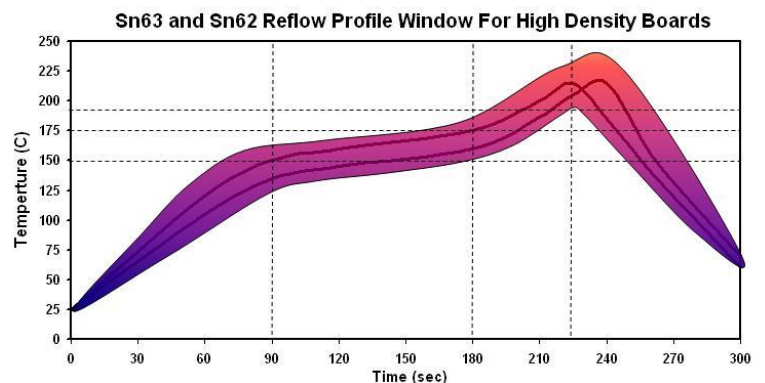
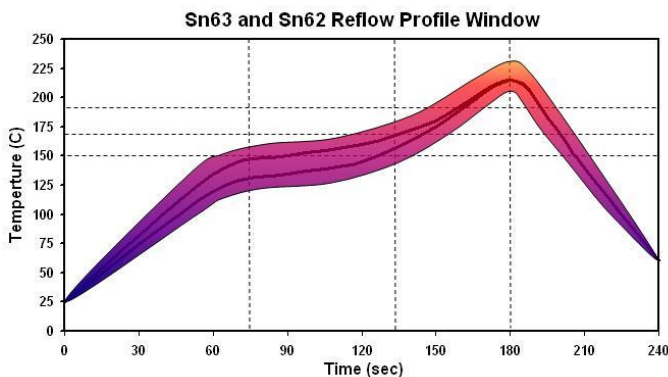
- Apply sufficient paste to the stencil to allow a smooth, even roll during the print cycle (a bead diameter of 12 to 16 mm (1/2 to 5/8 inch) is normally sufficient to begin).
- Apply small amounts of fresh solder paste to the stencil at controlled intervals to maintain paste chemistry and workable properties.
- NC258 provides the necessary tack time and force for today's high speed placement equipment, which will enhance product performance and reliability.
- Cleaning of your stencil will vary by application; however, it can be accomplished using AIM DJAW-10 stencil cleaner.

RECOMMENDED INITIAL PRINTER SETTINGS BELOW ARE DEPENDENT ON PCB AND PAD DESIGN

PARAMETER	RECOMMENDED INITIAL SETTINGS	PARAMETER	RECOMMENDED INITIAL SETTINGS
Squeegee Pressure	0.9 - 1.5 lbs/inch of blade	PCB Separation Distance	0.75 - 2.0 mm (.030 - .080")
Squeegee Speed	0.5 - 6 inches/second	PCB Separation Speed	3.0 - 20.00 mm/second
Snap-off Distance	On Contact 0.00 mm (0.00")		

Reflow Profile:

Two unique profile families are depicted below; both can be used in ramp-spike or ramp-soak-spike applications, and they each have similar reflow temperatures. The two profiles differ in where they reach their respective peak temperatures, as well as the time above liquidus (TAL). The shorter profile of the two would apply to smaller assemblies, where as the longer profile would apply to larger assemblies, such as backplanes or high-density boards. The shaded area defines the process window. Oven efficiency, board size/mass, component type and density all influence the final profile for a given assembly. These profiles are starting points, and processing boards with thermal-couples attached is recommended to optimize the process.



<i>RATE OF RISE 1.5-2°C / SEC MAX</i>	<i>RAMP TO 150°C (302°F)</i>	<i>PROGRESS THROUGH 150°C-170°C (302°F-338°F)</i>	<i>TO PEAK TEMP 220°C-210°C (428°F-410°F)</i>	<i>TIME ABOVE 183°C (381°F)</i>	<i>COOLDOWN ≤ 4 °C / SEC</i>	<i>PROFILE LENGTH AMBIENT TO COOL DOWN</i>
Short Profiles	≤ 60 Sec	15-45 Sec	45-75 Sec	45-60 Sec	45± 15 Sec	2.75-3.75 Min
Long Profiles	≤ 90 Sec	60-90 Sec	45-60 Sec	45-75 Sec	45± 15 Sec	4.0-5.0 Min

❖ THE RECOMMENDED REFLOW PROFILE FOR NC258 IS PROVIDED AS A GUIDELINE. OPTIMAL PROFILE MAY DIFFER DUE TO OVEN TYPE, ASSEMBLY LAYOUT, OR OTHER PROCESS VARIABLES. CONTACT AIM TECHNICAL SUPPORT IF YOU REQUIRE ADDITIONAL PROFILING ASSISTANCE.

Compatible Products:

- AIM Lead-Free Electropure Solder Bar
- NC Paste Flux, No-Clean Tacky Flux
- NC270WR VOC-Free No-Clean Spray Flux
- NC264-5 No-Clean Flux Spray/Foam
- Glowcore No-Clean Cored Wire
- One-Step Underfill FF35
- Epoxy 4044 Chip Bonding Epoxy
- 200AX Stencil Cleaner

Cleaning:

- NC258 can be cleaned if necessary with saponified water or an appropriate solvent cleaner.
- Please refer to the AIM cleaner matrix for a list of compatible cleaning materials.

Handling and Storage:

- NC258 is best used within 1 year when stored between -22° and +22° C (-8° and 72° F).
- Allow the solder paste to warm up completely and naturally to ambient temperature (8 hrs.) prior to breaking the seal for use.
- Mix the product lightly and thoroughly (1-2 mins. max) to ensure even distribution of any separated material.
- Do not store new and used paste in the same container, and reseal any opened containers while not in use.
- Replace the internal plug and cap of the 500 gram jars to ensure the best possible seal.

Physical Properties:

<i>ITEM</i>	<i>SPECIFICATION</i>
Appearance	Gray, Smooth, Creamy
Alloy	Sn62 and Sn63
Melting Point	183° C
Particle Size	T3 , T4, T5
Viscosity	Print/dispense versions available.
Packaging	Available in all industry standard packaging.

Test Data Summary:

CLASSIFICATION			
Product Name	IPC Classification to J-STD-004	Copper Mirror to J-STD-004B	Silver Chromate to J-STD-004B
NC258	ROLO	LOW	PASS
POWDER TESTING			
No.	Item	Results	Test Method
1	Powder Size	Type 3 – 45-25 micron Type 4 – 38-20 micron	IPC TM 650 2.2.14
2	Powder Shape	Spherical	Microscope
FLUX MEDIUM TESTING			
No.	Item	Results	Test Method
1	Acid Value	145 +/- 4 mg KOH/ g flux	J-STD-004B IPC TM 650 2.3.13
2	Halide Content	Silver Chromate Paper - Pass	J-STD-004B IPC TM 650 2.3.35
3	Fluorides Spot Test	No fluoride	J-STD-004B IPC TM 650 2.3.35.1 J-STD-004B IPC TM 650 2.3.35.2
4	Corrosivity Test/ Copper Mirror	Low	J-STD-004B IPC TM 650 2.3.32
5	Corrosion Flux	Pass	J-STD-004B IPC TM 650 2.6.15
6	Halide-Free/Silver Chromate Paper Test	Pass	J-STD-004B IPC TM 650 2.3.33
7	Surface Insulation Resistance	Pass – See AIM Qualification Test Report # NC258052510	J-STD-004 IPC TM 650 2.6.3.7
8	Compatibility Test	See list of recommended products above	GR-78-CORE
9	Oxygen Bomb	Bromine 269 mg/Kg Chlorine <99.9 mg/Kg	EN 14582:2007 SW 9056 SW 5050
VISCOSITY TESTING			
No.	Item	Results	Test Method
1	T-Bar Spindle Test Method	900 ± 10% kcps	J-STD-005 IPC TM 650 2.4.34
SOLDER PASTE TESTING			
No.	Item	Results	Test Method
1	Tack Test	37.9 g	J-STD-005 IPC TM 650 2.4.44
2	Tack Test	94.8 g	JIS Z 3284 Annex 9
3	Solder Ball Test	Pass	J-STD-005 IPC TM 650 2.4.43
4	Wetting Test	Pass	J-STD-005 IPC TM 650 2.4.45
5	Paste Shelf Life	Between -22° and +22° C (-8° and 72° F) = 1 year	AIM TM 125-11
6	Solder Paste Slump Test	Pass	J-STD-005 IPC TM 650 2.4.35

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 AIM IS ISO9001:2008 CERTIFIED

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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