

M8 NO CLEAN SOLDER PASTE

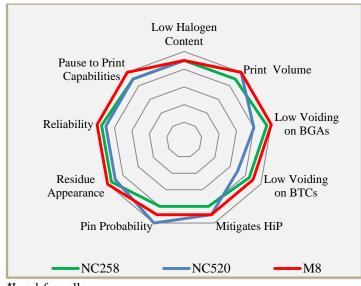
FEATURES

- ▶ Low Voiding: <5% on BGA and <10% on BTC Components
- Excellent Print Transfer Efficiencies on 01005 Components
- Eliminates HiP Defects
- Formulated for use with T4 and Finer Powders
- Powerful Wetting on Lead-Free Surface Finishes
- Approved for use with MPM Enclosed Flow
- Print Speeds up to 200mm/sec
- Passes Bono Testing

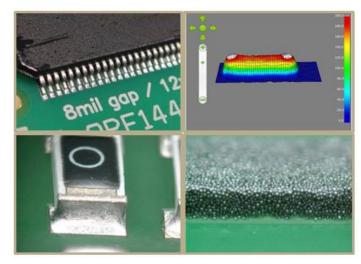
DESCRIPTION

An evolution of the highly successful NC258 platform, M8 brings no clean solder paste performance to the next level. Developed in combination with T4 and finer mesh leaded and lead-free alloy powders, M8 provides stable transfer efficiencies required for today's UFP and umBGA devices, reducing DPMO on the most challenging applications. A novel activator system provides powerful, durable wetting action accommodating a wide range of profiling processes and techniques. M8 activators will reduce wetting related defects such as HiP (head-in-pillow) and provide smooth shiny joints. M8 has reduced BGA and BTC voiding to as low as <5% on BGA and <10% on BTC ground pads.

CHARACTERISTICS



*Lead-free alloys



HANDLING & STORAGE

Parameter	Time	Temperature
Refrigerated Shelf Life	1 year	0°C-12°C (32°F-55°F)
Unrefrigerated Shelf Life	3 months	< 25°C (< 77°F)

Do not add used paste to unused paste. Store used paste separately; keep unused paste tightly sealed with internal plug or end cap in place. See AIM's paste handling guidelines for further information.

CLEANING

Pre-Reflow: AIM DJAW-10 effectively removes M8 solder paste from stencils while in process. DJAW-10 can be hand applied or used in under stencil wipe equipment. DJAW-10 will not dry M8 and will enhance transfer properties. Do not over-apply DJAW-10. Do not apply DJAW-10 to stencil topside. Isopropanol (IPA) is not recommended in process, but may be used as a final stencil rinse.

Post-Reflow Flux Residue: M8 residues can remain on the assembly after reflow and do not require cleaning. Where cleaning is mandated, AIM has worked closely with industry partners to ensure that M8 residues can be effectively removed with common defluxing agents. Contact AIM for cleaning compatibility information.

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TECHNICAL DATA SHEET



REFLOW PROFILE

Detailed profile information may be found at http://www.aimsolder.com/reflow-profile-supplements. Contact AIM for additional information.

PRINTING

Recommended Initial Printer Settings - Dependent on PCB and Pad Design			
Parameter	Recommended Initial Settings		
Squeegee Pressure	0.4 - 0.7kg/25mm		
Squeegee Speed	13 – 152 mm/second		
Snap-off Distance	On Contact 0.00 mm		
PCB Separation Distance	0.75 - 2.0 mm		
PCB Separation Speed	3 - 20 mm/second		

TEST DATA SUMMARY

Name	Test Method		Results
IPC Flux Classification	J-STD-004	ROL0	
IPC Flux Classification	J-STD-004B 3.3.1	ROL1	
Name	Test Method	Typical Results	Image
Copper Mirror	J-STD-004B 3.4.1.1 IPC-TM-650 2.3.32	LOW	No. 226-98 (2016) Mod 2016, 302300 Comtrol
Corrosion	J-STD-004B 3.4.1.2 IPC-TM-650 2.6.15	PASS	Before After
Quantitative Halides	J-STD-004B 3.4.1.3 IPC-TM-650 2.3.28.1	Br: 0.24% Cl: 0.0% Typical	
Qualitative Halides, Silver Chromate	J-STD-004B 3.5.1.1 IPC-TM-650 2.3.33	PASS	
Qualitative Halides, Fluoride Spot	J-STD-004B 3.5.1.2 IPC-TM-650 2.3.35.1	No fluoride	Document Rev # NE15

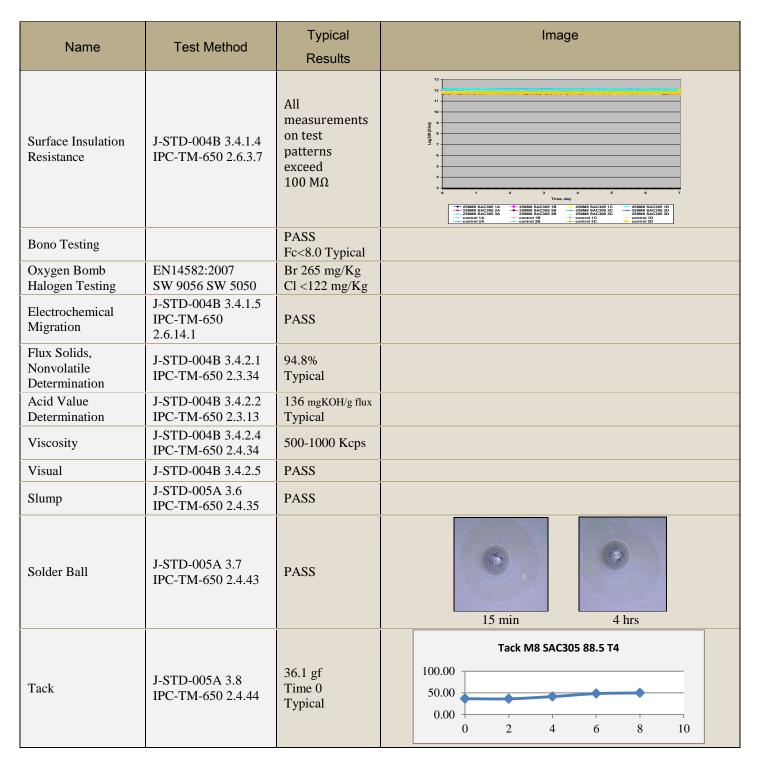
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