

NC217 GEL FLUX

FEATURES

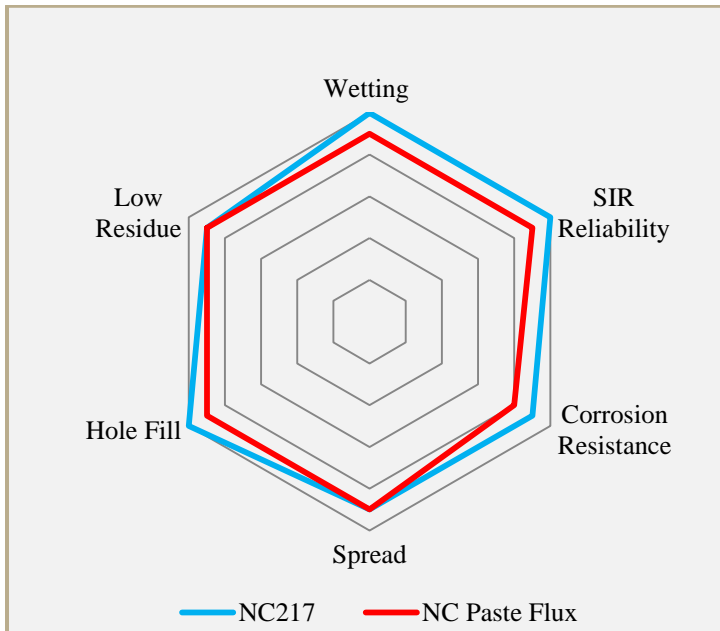
- Formulated for Rework and Repair
- Ideal for BGA – Wide Process Window/Low Voiding
- Tin-Lead and Lead-Free Compatible
- Electrically Safe Unheated

DESCRIPTION

NC217 Gel Flux is specifically designed for touch-up and repair work. NC217 has a gel-like consistency minimizing spreading during rework and improving heat transfer from the soldering iron tip or hot air source. NC217 provides a much wider process window than liquid flux and lower residue than tacky flux. Gel flux spreading beyond the heated rework area, once dry, passes J-STD-004A and B unheated. NC217 dries within one hour of use with or without heat and is tack-free after four hours.



CHARACTERISTICS



HANDLING & STORAGE

Parameter	Time	Temperature
Sealed Refrigerated Shelf Life	1 Year	4°C-12°C (40°F-55°F)
Sealed Unrefrigerated Shelf Life	6 Months	Room Temperature

NC217 has a sealed shelf life of one (1) year when stored 4°C-12°C (40°F-55°F). Do not store near fire or flame. Keep away from sunlight as it may degrade product. NC217 is shipped ready-to-use, no mixing necessary. Do not mix used and unused chemicals in the same container. Reseal any opened containers. After opening, gel flux shelf life is environment and application dependent.

APPLICATION

NC217 is formulated for application via dispense needle, brush, or a cotton swab. NC217 is ready to use directly from its container, no thinning required

PROCESS GUIDELINES

NC217 should be applied sparingly to solderable surfaces prior to heat application. NC217 can be used with soldering irons, hot air pencils, BGA rework stations or micro ovens. Reflow profile will be alloy and thermal mass dependent. For processing assistance, please contact AIM Technical Support by visiting <http://www.aimsolder.com/technical-support-contacts>.


CLEANING

NC217 Gel Flux residues do not require removal. However, residues can be easily cleaned if necessary using common flux removers. Isopropyl alcohol (IPA) is not recommended. Contact AIM for additional cleaning information.

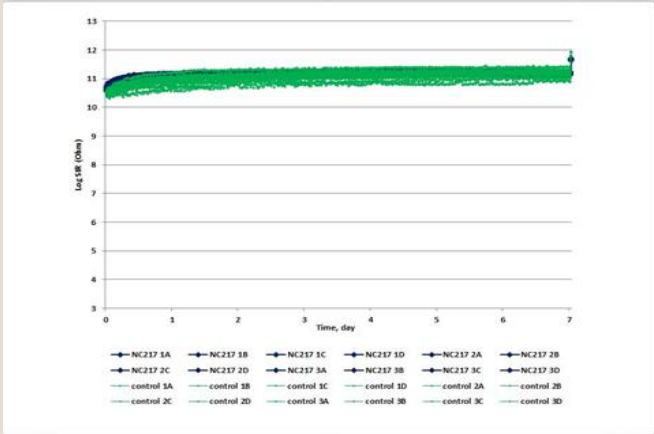
SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

TEST DATA SUMMARY

Name	Test Method	Results	
IPC Flux Classification	J-STD-004	ROLO	
Name	Test Method	Results	Image
Copper Mirror	J-STD-004B 3.4.1.1 IPC-TM-650 2.3.32	LOW	
Corrosion	J-STD-004B 3.4.1.2 IPC-TM-650 2.6.15	PASS	
Quantitative Halides	J-STD-004B 3.4.1.3 IPC-TM-650 2.3.28.1	≤ 0 .0	
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	

TECHNICAL DATA SHEET

Name	Test Method	Results	Image
Surface Insulation Resistance	J-STD-004B 3.4.1.4 IPC-TM-650 2.6.3.7	PASS	 <p>The graph displays the surface insulation resistance in ohms over a 7-day period for 18 different test samples. The y-axis is labeled 'Insulation (ohms)' and ranges from 3 to 13. The x-axis is labeled 'Time, day' and ranges from 0 to 7. The samples are grouped into two sets: NC217 (1A-3D) and control (1A-3D). All samples show a rapid initial increase in resistance, stabilizing between 10 and 12 ohms within the first day and maintaining this level through day 7. The legend at the bottom of the graph lists the following series: NC217 1A, NC217 1B, NC217 1C, NC217 1D, NC217 2A, NC217 2B, NC217 2C, NC217 2D, NC217 3A, NC217 3B, NC217 3C, NC217 3D, control 1A, control 1B, control 1C, control 1D, control 2A, control 2B, control 2C, control 2D, control 3A, control 3B, control 3C, and control 3D.</p>
	J-STD-004 3.4.1.4 IPC-TM-650 2.6.3.3	PASS	
Acid Value Determination	J-STD-004B 3.4.2.2 IPC-TM-650 2.3.13	167 mg KOH per gram flux Typical	
Viscosity	J-STD-004B 3.4.2.4 IPC-TM-650 2.4.34	100 – 160 kcps	
Visual	J-STD-004B 3.4.2.5	Yellow - Orange	
Wetting	J-STD-005A 3.9 IPC-TM-650 2.4.45	PASS	

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