

KESTER® 922-CX SOLDERING FLUX

No-Clean, Low Solids, Liquid Flux

DESCRIPTION

Kester 922-CX Soldering Flux is a non-rosin organic fluxes designed for wave soldering conventional and surface mount circuit board assemblies. These fluxes eliminate defects often experienced in surface mount assembly wave soldering operations with traditional fluxes. These non-corrosive and non-conductive fluxes have an extremely low solids content. There is essentially NO RESIDUE left on the assembly after soldering. There are no residues to interfere with electrical testing and the expense of cleaning is eliminated. A particular feature of 922-CX is the very dry appearance of PCB assemblies as they exit the wave solder machine. Although cleaning is eliminated, the flux will not harm the electrical reliability of the assembly.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Essentially no residue left behind after soldering
- Eliminates expense of cleaning
- Boards are dry as they exit the wave solder machine
- Non-corrosive and halogen-free
- No surface insulation resistance degradation
- No offensive odors given off during soldering
- Conforms to ANSI/J-STD-004, flux designator ORL0

ROHS COMPLIANCE

This product meets the requirement of the RoHS (Restriction of Hazardous Substances) Directive, 2002/95/EC Article 4 for the stated banned substances.

TECHNICAL DATA

Physical Properties	922-CX	4662
Specific Gravity @ 24 °C (75 °F)	0.789	0.783
Pounds Per Gallon	6.58	6.53
Solids Content	2.3	---
Acid Number, mgKOH/gm	14.0 ± 0.7	---
Halogen Content	None	---
Flash point (T.O.C.)	18 °C (64 °F)	18 °C (64 °F)
Auto-ignition temperature	399 °C (750 °F)	399 °C (750 °F)
Copper Mirror Corrosion Test	Pass	---
Surface Insulation Resistance @ 50 °C (122 °F), 90% humidity*	10 ¹¹ ohm	---
Surface Insulation Resistance @ 85 °C (185 °F), 85%humidity**	10 ⁹ ohm	---
Thinner	4662	---
* Test Boards - 12.5 mil lines, 12.5 mil spaces. 50 volts DC bias. Reading taken after 60-sec charge of 100 volts DC with polarity reversed from bias voltage. SIR of unsoldered control = 1011 ohm.		
** Test Boards - 12.5 mil lines, 12.5 mil spaces. 50 volts DC bias. Reading taken after 60-sec charge of 100 volts DC with polarity reversed from bias voltage. SIR of unsoldered control = 109 ohm.		

FLUX APPLICATION

922-CX can be applied to the assembly by dipping, spraying or wave fluxing. The usable preheat range is 82 to 110 °C (180 to 230 °F), but the optimum preheat temperature for most PCB assemblies is 99 to 110 °C (210 to 230 °F) as measured on the top or component side of the circuit board. Insufficient preheat tends to leave more residue behind after soldering. Excessive preheating time or temperature can partially degrade the flux and result in icicles or solder shorts.

PROCESSING GUIDELINES

Control of the flux tank during use is necessary to assure a consistent amount of flux is applied to the circuit boards, the least amount of residue remains after soldering, no interference in electrical probe testing and consistent soldering results are obtained. MacDermid Alpha has developed the PS-22 Flux Test Kit to provide an effective means of determining the relative flux concentration and the proper amount of thinner to add to replace evaporative losses.

Also, debris from circuit boards (board fibers, etc.) and air lines can build up in the flux tank during use. When excessive, it will redeposit on circuit boards which may create a buildup of residues on probe test pins and can even affect the foam head characteristic in the flux tank. It is necessary to replace the flux tank with fresh flux when excessive debris accumulates in the flux tank.

Cleaning

This product is a no-clean flux. For most electronic assemblies, removal of the flux residue is not required. If post soldering residue removal is desired, it can be cleaned with a 2 to 5% concentration of a saponifier such as Kester 5768 Cleaner.

Storage, Handling and Shelf Life

922-CX is flammable. Store away from sources of ignition. Shelf life is 3 years from the date of manufacture when handled properly and held at 10 to 25 °C (50 to 77 °F).

RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area.



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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