SF800-MBB-L Soldering Flux

Halide-Free, Low Solids Liquid Flux for Multi-busbar Photovoltaic Assembly

Product Description

Kester SF800-MBB-L is a halide-free, low solids organic based liquid flux designed specifically for Multi-busbar PV assembly. The low solids in the formulation makes SF800-MBB-L specifically suitable for spraying application, which is also suitable for dipping when concentrated. It is formulated to overcome the smaller surface area of wire used in Multi Busbar applications and achieves excellent interconnection. Cells are dry and cosmetically clean as they exit the tabber and stringer equipment. The formulation of SF800-MBB-L is also designed to deliver excellent peel force that results in long term stability of the solder joints. SF800-MBB-L is classified as ORL0 under J-STD-004.

Performance Characteristics:

- Quick flux activation even under short soldering time and higher preheating loss
- Minimal and tack-free residues for low equipment maintenance and downtime
- Excellent peel force resistivity
- Fast wetting
- Compatible with different encapsulants
- Suitable for dipping and spraying application methods

RoHS Compliance

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive. Additional RoHS information is located at https://www.kester.com/downloads/environmental.

Physical Properties

Appearance: Clear, colorless liquid

Specific Gravity: 0.800
Anton Paar DMA 35 @ 25 °C

Acid Number (typical): 10.7 mg KOH/g of flux
Tested by potentiometric titration

Solid Content (theoretical): 1.5%

pH: 3.5

Flux Application

SF800-MBB-L can be applied by a spraying or dipping application method.

Process Considerations

SF800-MBB-L is engineered for the PV industry. The chemical flux is designed for both automated tabber and stringer applications, including hand soldering. Standard preheating and heat temperature can be used without special cooling or prebaking. Consult your Equipment Supplier or Kester Technical Support for further information.

Cleaning

SF800-MBB-L flux residues are non-conductive, non-corrosive, and do not require removal in most applications. If residue removal is required, consult Customer Technical Support for cleaning recommendations.

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 or link here.

Storage, Handling and Shelf Life

SF800-MBB-L is flammable. Store away from sources of ignition. Shelf life is 1 year from the date of manufacture when handled properly and held at 10 to 25 °C (50 to 77 °F).

Health and Safety

This product, during handling or use, may be hazardous to your health or the environment. Read the Safety Data Sheet and warning label before using this product. Safety Data Sheets are available at https://www.kester.com/downloads/sds.

Contact Information

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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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