

TSF-6592LV

No-Clean Tacky Soldering Flux

DESCRIPTION

Kester **TSF-6592LV** is a no-clean paste flux designed as a lead-free solution for an array of lead-free interconnect applications such as flip chip attach, sphere or ball attach, rework/repair of CSPs, BGAs, SMDs, or any lead-free soldering application that requires a very tacky flux. It has been optimized for consistent high speed printing applications.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Compatible with Lead Free alloys such as SnAg, SnCu, SnAgCu, SnAgBi
- Reflow-able with peak temperatures up to 270 °C
- Reflow-able in air and nitrogen
- Bright shiny soldered joints with clear residues
- Aggressive flux on various substrates such as OSP-Cu, Immersion finishes and ENIG
- Clear non-tacky residues
- High tack to minimize skewing of components
- Low voiding
- Stencil life of 8+ hours (process dependent)
- Classified as ROL0 per J-STD-004A & J-STD-004B
- Compliant to Bellcore GR-78

RoHS COMPLIANCE

This product meets the requirements of the Restriction of Hazardous Substances (RoHS) Directive, 2015/863 for the stated banned substances.

PHYSICAL PROPERTIES

Viscosity (typical):

235 poise

Malcom Viscometer @ 10rpm and 25 °C

Initial Tackiness (typical): 100 grams

Tested to J-STD-005, IPC-TM-650, Method 2.4.44

Acid Number:

85 mg KOH/g of flux

Tested to J-STD-004, IPC-TM-650, Method
2.3.13**RELIABILITY PROPERTIES****Copper Mirror Corrosion:** Low

Tested to J-STD-004, IPC-TM-650, Method 2.3.32

Corrosion Test: Low

Tested to J-STD-004, IPC-TM-650, Method 2.6.15

Silver Chromate: Pass

Tested to J-STD-004, IPC-TM-650, Method 2.3.33

Chloride and Bromides: None Detected

Tested to J-STD-004, IPC-TM-650, Method 2.3.35

SIR, IPC (typical): Pass

Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

Surface Insulation Resistivity (SIR): Pass

J-STD-004B, IPC-TM-650, Method 2.6.3.7

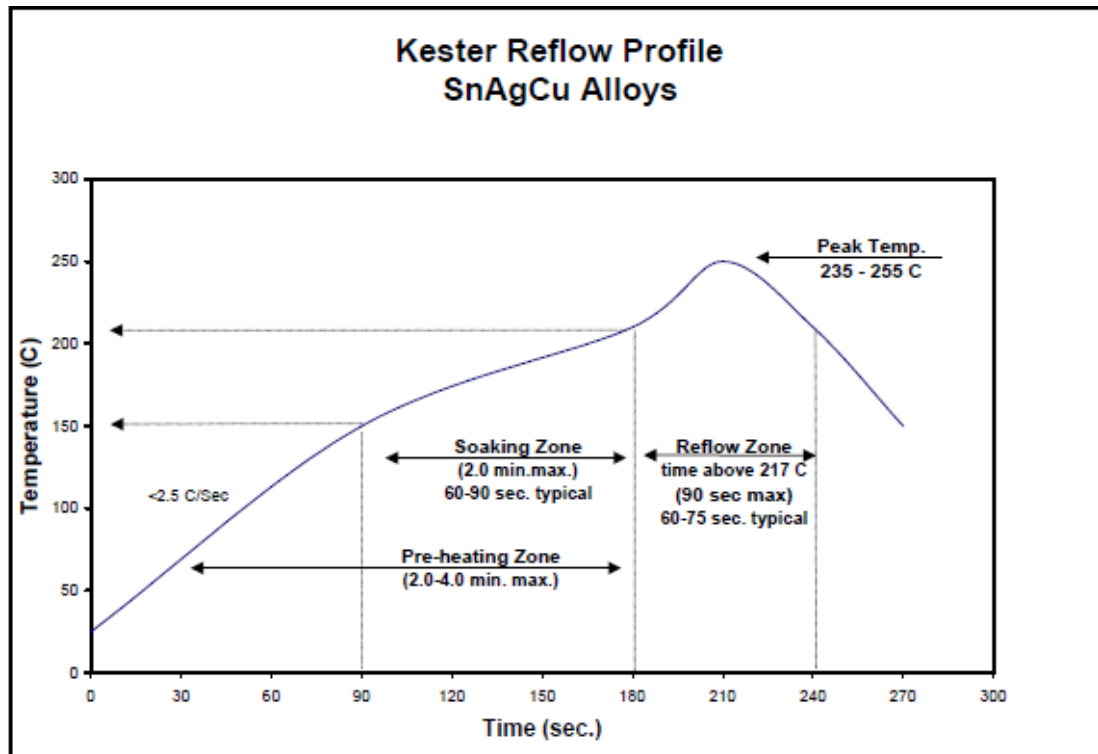
STANDARD APPLICATIONS

TSF-6592LV is designed for stencil/screen printing, rotating drum, slide fluxers and/or syringe applications. Great for rework applications on all PCB packages of various electronic devices. TSF-6592LV is great for rework applications on all PCB packages. TSF-6592LV can be used in BGA/PGA sphere/pin attachment vehicle or for repair and reballing/repinning. This flux works on flip chip, chip scale package and flip chip bumping sites assemblies as a soldering paste flux.

PRINTING PARAMETERS**Temperature/Humidity** Optimal ranges are 21 to 25 °C (70 to 77 °F) and 35 to 65% RH

RECOMMENDED REFLOW PROFILE

The recommended convection reflow profile for TSF-6592LV for Sn96.5Ag3.5, Sn99.3Cu0.7, or the various SnAgCu alloys is shown here. This profile is simply a guideline. As TSF-6592LV was engineered to be a versatile, robust interconnect material other reflow profiles would be effective. Your optimal profile may be different from the one shown based on your oven, component design, fixturing and mix of defects. Please contact Kester Technical Support if you need additional profiling advice.


CLEANING

TSF-6592LV is a no-clean chemistry. The residues do not need to be removed for typical applications. If residue removal is required, it can be removed using commercially available flux residue cleaner. Contact Kester Technical Support for additional assistance.

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.**

STORAGE

Refrigeration is the recommended optimum storage condition for TSF-6592LV to maintain consistent viscosity, reflow characteristics and overall performance. TSF-6592LV should be stabilized at room temperature prior to printing. TSF-6592LV should be kept at standard refrigeration conditions, 0 to 10 °C (32 to 50 °F). Please contact Kester if you require additional advice with regard storage and handling of this material. Shelf life is 4 months from date of manufacture when handled properly and held at 0 to 10 °C (32 to 50 °F).

CONTACT INFORMATION

**To confirm this document is the most recent version, please contact
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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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