



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



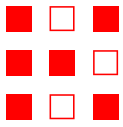
## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## EM907 Solder Paste

### Lead-Free, No-Clean

### Product Description

EM907 is a lead-free, air and nitrogen reflowable no-clean solder paste specifically designed for the thermal requirements of lead-free alloys, including the Sn96.5Ag3.0Cu0.5 alloy. The paste flux system allows joint appearances that closely resemble that achieved with SnPb alloys. EM907 is capable of stencil printing downtimes up to 60 minutes with an effective first print down to 20 mils without any kneading. EM907 also exhibits excellent continual printability for fine pitch (0.4mm/16 mils) and is able to print at high speeds up to 6 in/s (150 mm/s). This solder paste also exceeds the reliability standards required by J-STD-004.

### Performance Characteristics:

- Lead-free joints that closely resemble those achieved with SnPb solder paste
- Excellent solderability to a wide variety of surface metalizations, including NiAu, ImSn and ImAg
- High print speeds up to 150 mm/s
- Capable of 60 minute break times in printing
- Stencil life: 12+ hours (process dependent)
- Excellent printing characteristics to 16 and 20 mils pitch
- Excellent print and reflow characteristics for 0201 applications
- Stable tack life
- Classified as ROL0 per J-STD-004

**Standard Applications:**  
88.5% Metal – Stencil Printing

### RoHS Compliance

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

### Physical Properties

Data given for Sn96.5Ag3.0Cu0.5, 88% metal, -325+500 mesh)

**Viscosity (typical):** 1800 poise  
Malcom Viscometer @ 10rpm and 25°C

**Initial Tackiness (typical):** 44 grams  
Tested to J-STD-005, IPC-TM-650, Method 2.4.44

**Slump Test:** Pass  
Tested to J-STD-005, IPC-TM-650, Method 2.4.35

**Solder Ball Test:** Preferred  
Tested to J-STD-005, IPC-TM-650, Method 2.4.43

**Wetting Test:** Pass  
Tested to J-STD-005, IPC-TM-650, Method 2.4.45

### 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 2.3.35

**Chloride and Bromides:** None Detected  
Tested to J-STD-004, IPC-TM-650, Method 2.3.35

**Fluorides by Spot Test:** Pass  
Tested to J-STD-004, IPC-TM-650, Method 2.3.35.1

**Surface Insulation Resistivity (SIR), (typical):** Pass  
Tested to J-STD-004, IPC-TM-650, Method 2.6.3.3

	Blank	EM907
Day 1	1.1*10 <sup>10</sup> Ω	7.7*10 <sup>8</sup> Ω
Day 4	1.5*10 <sup>10</sup> Ω	1.2*10 <sup>9</sup> Ω
Day 7	1.4*10 <sup>10</sup> Ω	1.4*10 <sup>9</sup> Ω



## ✓ Availability

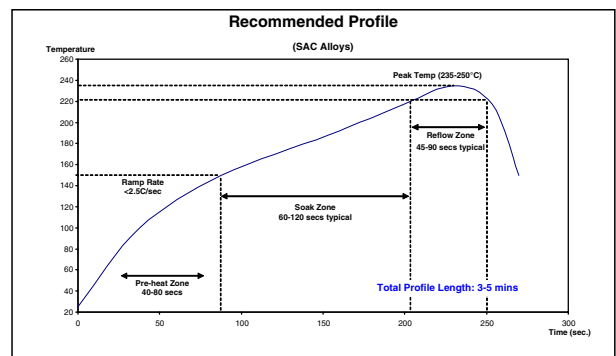
EM907 is available in the Sn96.5Ag3.0Cu0.5 and Sn96.5Ag3.5 alloys. Type 3 powder mesh is normally recommended, but type 4 is available for fine pitch applications. EM907 is also compatible with other SnAgCu alloys in a similar melting range to the listed alloys. For specific packaging information, see Kester's Paste Packaging Chart for available sizes. The appropriate combination depends on process variables and the specific application.

## ♻️ Printing Parameters

Squeegee Blade	80-90 durometer stainless steel or polyurethane
Squeegee Speed	Capable to a maximum speed of 150 mm/sec (6 in/sec)
Stencil Material	Stainless Steel, Molybdenum, Nickel Plated or Brass
Temperature/Humidity	Optimal ranges are 21-25°C (70-77°F) and 35-65% RH

## ♻️ Recommended Reflow Profile

Full convection reflow method is most commonly used to reflow the EM907 formula. The recommended convection reflow profile for EM907 made with either the Sn96.5Ag3.5 or SnAgCu alloys is shown here.



## ••• Cleaning

EM907 is a no-clean formula. The residues do not need to be removed for typical applications. Although EM907 is designed for no-clean applications, its residues can be easily removed using automated cleaning equipment (in-line or batch) with a variety of readily available cleaning agents. Call Kester Technical Support for details.

## 📦 Storage and Shelf Life

Refrigeration is the recommended optimum storage condition for solder paste to maintain consistent viscosity, reflow characteristics, and overall performance. EM907 should be stabilized at room temperature prior to printing. EM907 should be kept at standard refrigeration temperatures, 0-10°C (32-50°F). Please contact Kester Technical Support if you require additional advice with regard to storage and handling of this material. Shelf life is 4 months from date of manufacture and held at 0-10°C (32-50°F).

## ⚠️ Health and Safety

This product, during handling or use, may be hazardous to your health or the environment. Read the Safety Data Sheet (SDS) and warning label before using this product.