

Technical Data Sheet

ASSEMBLY MATERIALS

Product Type: No Clean Solder Paste

Product Name: SOP 91123 Sn62-90M4

Description

SOP 91123 Sn62-90M4 solder paste is a lead free, no clean solder paste that promotes outstanding wetting and minimizes soldering defects. The flux system is specifically optimized for lead free solder alloys. This formula provides superior performance on a variety of surfaces finishes and leaves a clear residue after reflow. It is developed for J-STD-004 LO classification and contains no halogens or halides.

Key Benefits

- Halogen Zero
- Good wetting under Air and Nitrogen atmosphere
- Anti-Capillary effect beneath QFP & passive components

Applications

- Printing

Product Code and Alloy

Product Code					Powder Properties		
Paste	Alloy	Metal Content	*Viscosity	Powder Type	Particle Size	Alloy	Melting Point
SOP 91123	Sn62	90%	M	4	20 – 38 µm	Sn62/Pb36/Ag2	179 °C

*D = Dispense grade M = Print grade H = Print grade, high L = Dipping/Jetting grade, Low

Flux Activity

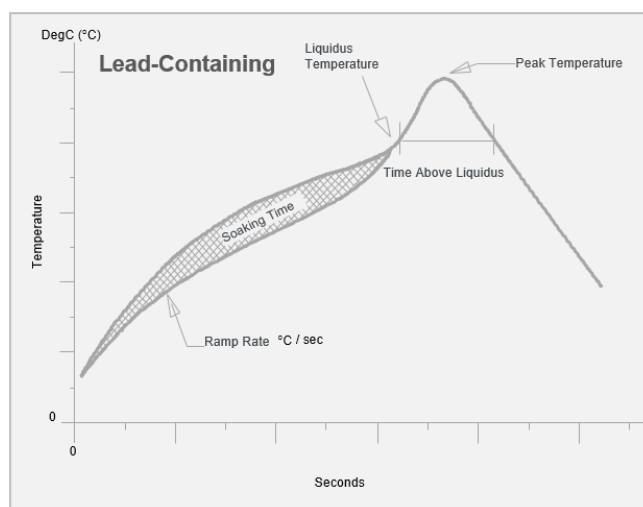
Activity Level (J-STD 004)	ISO 9454-1 {DIN EN 29454-1}	Classification
RELO	1.2.3.C	No Clean/ Solvent Clean

Halogen Content

Halogen-Zero
(No halogen added in the flux)

Tolerances: Halogen < 50 ppm; measured according to BS EN 14582

Recommended Reflow Profile



* Graph not drawn to scale

Recommended Profile

Average Ramp Rate	1 – 3 °C/s
Peak Temperature	15 °C (min) – 65 °C (max) above Melting Temperature
Time above liquidus	45 – 90 s
Reflow Atmosphere	Reflow in Air or in N₂ with < 2000 ppm O₂

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Cleaning Instructions

After reflow flux residues may remain on the circuit and do not need to be washed. For cleaning of wet paste or if desired for cleaning of flux residues Zestron and Vigon cleaners can be used – see separate cleaning recommendations.

Storage

- Store the solder paste in tightly-sealed containers and avoid exposure to sunlight and high humidity
- Max expiration date: please refer to the expiry date on the label of the packaged product
- Storage condition in the refrigerator at 2 - 10 °C
- Store cartridges with tip pointing downwards

Paste Preparation

- Remove paste from fridge: Before opening the package, leave paste for at least 4 hours (depending on jar/ cartridge size) at room temperature, so that paste warms up
- Do not open jar/cartridge while paste is cold to prevent condensation
- Do not heat the paste beyond room temperature
- Before using paste jar: To obtain uniform, stable viscosity stir paste for 1 – 2 min, using stainless steel or chemically resistive plastic spatula

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