

Flux Coatings for Solder Preforms

Introduction

Preforms are precise shapes of solder that are manufactured to tight tolerances to give repeatable, accurate solder amounts that are efficiently introduced into the manufacturing process.

Adding the flux directly onto the solder allows for an exact, correct amount of flux to properly complete the soldering process. It also puts the flux between the solder and the substrate, where it is the most effective.

Flux coatings for preforms are available in no-clean and solvent cleanable chemistries, with a variety of activity levels to suit your substrate metallizations.

Indium Corporation's unique coating process can control the amount of flux to tight tolerances. **Flux coatings** are measured and applied by weight percentage. The standard weight percentage ranges from 1–3% ± 0.5%. The **flux coating** is applied after the dimensions of the preform have been verified.



Features

- Eliminates the need for a separate fluxing step
- Eliminates excessive flux residue
- Delivers flux precisely where it is needed
- Provides a uniform amount of flux every time

Additional Information

Please visit www.indium.com/techlibrary for more information on solder preforms and **flux coatings**, or visit our blogs at www.indium.com/blogs

Product Data Sheets

- LV1000 Flux Coating
- No-Clean Fluxes for Coating Solder Preforms
- Solder Preforms

Application Notes

- Fluxless Soldering
- Flux and Solder Compatibility
- Storage and Handling of Flux-Coated Preforms in Tape & Reel

Technical Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Material Science as it applies to the electronics and semiconductor sectors, Technical Support Engineers provide expert advice in solder properties, alloy compatibility and selection of solder preforms, wire, ribbon, and paste. Indium Corporation's Technical Support engineers provide rapid response to all technical inquiries.

Flux Coating	IPC Classification	Substrate Finishes	J-STD-004 SIR & ECM
LV1000	ROLO	Au, Ag, Pd, Pt, Cu, Ni, HASL, ENIG, Sn	Pass
NC-7	ROLO	Au, Ag, Pd, Pt, Cu, HASL, ENIG, Sn	Pass
NC-9	ROL1	Au, Ag, Pd, Pt, Cu, HASL, ENIG, Sn	Pass
R	ROLO	Au, Ag, Pd, Pt, Cu, HASL, ENIG, Sn	Pass
RMA	ROLO	Au, Ag, Pd, Pt, Cu, HASL, ENIG, Sn	Pass
RA-2	ROL1	Cu, Ni, Cu Alloys (Brass, Bronze)	Cleaning recommended
RSA	ROL1	Cu, Ni, Cu Alloys (Brass, Bronze)	Cleaning recommended
RA-42	ROH1	Cu, Ni, Cu Alloys (Brass, Bronze), Alloy 42	Cleaning recommended

*See *Flux and Solder Compatibility* application note for details on fluxes and their recommended solder alloys.

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Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

From One Engineer To Another™

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Form No. 97824 (A4) R7



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