

Product Data Sheet

Clad Solder Preforms

Benefits

- Maintains standoff
- Bridges gaps
- Adds strength to solder joints

Introduction

Clad Solder Preforms are manufactured shapes that deliver a precise amount of solder while maintaining and/or bridging a particular gap. They consist of a copper layer that is clad on one or both sides with a specified thickness of solder. Dimensions can be held to tight tolerances to assure volume accuracy. Clad solder preforms come in standard shapes and sizes such as squares, rectangles, washers, frames and discs. Typical sizes range from .254mm up to 50.8mm. Smaller and larger sizes, as well as custom shapes, are also available.



Alloys/Materials

Typical alloys include:

- Sn62/Sn63
- 96.5Sn/3.5Ag
- Sn10
- Other alloys are available upon request.

The core material is OFHC Copper:

- Annealed Per ASTM-B152
- F scale
- Tensile Strength 35,000 psi max.
- Other coppers are available upon request.

Packaging

Clad Solder Preforms are packaged in formats similar to standard preforms and take into consideration the size and strength of the preform. Common packing methods include jars, boxes (stack or layer pack) and tape & reel. Most packages can be backfilled with argon upon request.

When possible, we suggest filling each package with the quantity of clad solder preforms that will be consumed in one shift.

Storage and Handling Procedures

Clad Solder Preforms should be kept in their unopened container in a cool dry place until time of use, preferably in a nitrogen dry box. After opening, any unused preforms should be stored in these same conditions.

Safety

Eating, drinking and smoking should be avoided while handling preforms. Hands should be washed immediately following use. If possible, preforms should be handled with protective gloves or finger cots.

Applications

- Heat Sink Attach
- Pin Soldering
- 3D Soldering
- Jumper Bridges
- Connectors

And other soldering applications where the following properties are desired:

- Strength
- Wear Resistance
- Formability
- Electrical Properties
- Thermal Properties

Compatible Products

- **Clad Solder Preforms** can be flux coated with any of our standard preform flux coatings.
- Indium Corporation's liquid fluxes and TACfluxes.

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 on solder properties, alloy compatibility and selection of solder preforms, wire, ribbon and paste. Indium Corporation Technical Support engineers provide Rapid Response to all technical inquiries, usually within 24 hours.

Material Safety Data Sheets

The MSDS for this product can be requested online at <http://www.indium.com/techlibrary/msds.php>

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