

# SOLDER RECLAIM PROGRAM

## ...state-of-the-art recycling

### Key Benefits

- **SIMPLE and EASY**—detailed instructions tell you exactly what you need to do
- **VALUE-ADDED PROCESS**—complements complete line of solder products and services
- **SAFE FOR THE ENVIRONMENT**—environmentally conscious, electrolytic recycling of your used solder into usable solder that is as pure, or more pure, than virgin metal

### Overview

Indium Corporation has been refining and purifying minor metals for over 40 years. We provide you with a cost-effective, legal, and safe way to recycle solder dross and contaminated solder. In return, you receive a recycle certificate guaranteeing that the metal was recycled and not put into a landfill, plus you receive value for the metal in the form of a credit or payment. Indium Corporation's solder reclaim program uses a state-of-the-art electrolytic recycle process that removes both organic and metallic impurities from contaminated tin-lead, lead-free solder, and solder dross.

### Assured Recycling

If you are a solder user with regular dross generation, you can take advantage of Indium Corporation's assured and documented solder recycling. We will:

- Take delivery of your collected solder dross and contaminated solder
- Assay the material
- Pay you for the value of the dross and contaminated metal
- Send you a certificate confirming that the metal was properly recycled and not put into a landfill

### Assured Recycling Pricing

With Assured Recycling, Indium Corporation purchases the material outright. The value of the material to be recycled is determined based on an assay that we perform upon receipt of the metal. Since solder dross generally includes both non-metallic oxygen (as metal oxide) and a small amount of organics from flux, both the metallic content—as a percentage of total weight—and the metallic components must be analyzed.

- Dross with a higher percentage of metal is worth more than dross where the metal has been squeezed out

\* Indium Corporation can help make arrangements with a licensed waste handler to take back large quantities of used solder paste jars and wipes. Because we cannot accept this waste in our facility, you must ship the waste jars and wipes directly to the third party waste handler, who will then reclaim the metal and plastic from the jars and wipes. We CANNOT accept empty solder containers, rags, wipes, etc. If the shipment contains these items, the shipment will be refused at the dock and the entire shipment will be returned at your expense.



- Dross that has a reclaimable amount of silver or gold is worth more than drosses that do not contain precious metals
- Although Indium Corporation will pay for reclaimable precious metals, we cannot pay published market price because we must involve a secondary reclaim company that specializes in precious metals reclaim.

### Acceptable Materials for Recycling:

- Tin-lead and lead-free soft solder and solder dross containing major components of tin, lead, silver, and copper with virtually any minor metal contaminants
- Unopened jars of solder paste
- Other soft solder alloys that contain greater than 1% bismuth, zinc, cadmium, or other metals may be acceptable but must be evaluated. If the solder is known to contain these other metals, then the solder or dross should be segregated from normal solder and dross

### Unacceptable Materials\*:

- Opened and waste solder paste jars
- Wipes contaminated with solder paste
- Dross contaminated with large amounts of oil or other organic materials
- Electric scrap (non-solder recycle material)

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## General Logistics

You may use your own sealed dross containers, containers supplied by another solder reclaim company, or an Indium Corporation-supplied container. For quantities of 500lbs. or more, Indium Corporation will pay the incoming freight to our facility in Elk Grove Village, Illinois, USA.

## Instructions for Shipping Contaminated Solder and Solder Dross

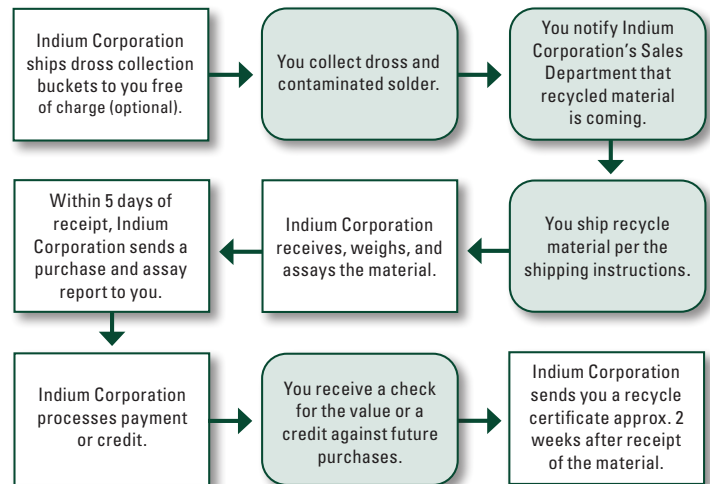
1. Make sure all containers are sealed to prevent leakage or spills. Can lids must be secured.
2. Identify your company and the material on the packing slip.
3. Containers must be labeled with the Indium Corporation-supplied or comparable labels. Examples of proper labels can be found at <http://www.indium.com/reclaim-and-recycle/solders>. Attach the Indium Corporation-supplied labels only after the material in the cans has cooled to room temperature.
4. Material must be banded and wrapped securely on a pallet.
5. For shipments of 500lbs. or more, Indium Corporation will pay the freight. Send the shipment "freight collect" via Old Dominion Freight Lines at 800-611-6335. Note Third Party Billing to: Indium Corporation c/o Kenco Transportation Management, Attn: Accounts Payable / Acct#12745755, 2001 Riverside Drive, Chattanooga, TN 37406.

### Destination:

Indium Corporation  
Attn: Solder Recycle  
80 Scott St.  
Elk Grove Village, IL 60007  
Phone: 847-439-9135

6. If you are shipping 1,000lbs. or more of lead-containing material, then the trucking company will need a #9 placard for the truck. Most truckers have these available; however, we will supply one at no cost if you need one.

## Assured Recycle Flow Chart:



## Using Shipping Containers

- Use green buckets for lead-free
- Use black buckets for tin-lead
- Include a maximum of 75lbs. of material per bucket
- To avoid destroying the labels, apply labels to the side of the buckets after the buckets are full and have cooled to room temperature
- Seal buckets tightly to avoid accidentally spilling material

For more information about Indium Corporation's Solder Reclaim Program, contact us with your questions: [drossreclaim@indium.com](mailto:drossreclaim@indium.com) or visit our website at: [www.indium.com/reclaim-and-recycle/solders](http://www.indium.com/reclaim-and-recycle/solders)

**From One Engineer To Another®**

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