

# Metal Reclamation Services

Maximize Your Metal Recovery Return

CIRCUIT BOARD ASSEMBLY SOLUTIONS



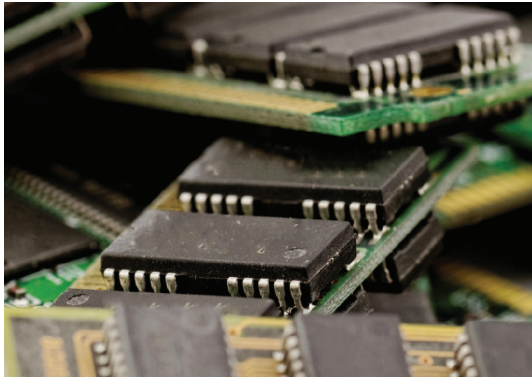
# Metal Reclamation Services

A Leading Solder Manufacturer and Recycler in North America

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MacDermid Alpha Electronics Solutions is the largest soldering materials provider in North America with in-house solder paste and reclaim capability. Our publicly-held corporation offers stability and the highest financial return to our recycling customers. We have an experienced staff dedicated to reclamation efforts who maximize the amount of metal processed from your reclaim material. Our processes also remove the reclaim material from becoming part of the waste stream traditionally placed in landfills.

In addition to providing tough, sealable metal recycling pails and drums, MacDermid Alpha guarantees that all shipments are lot traceable and provides audit trails to help document the safe environmental reprocessing of waste material. We welcome customers to visit our facility in Altoona, Pennsylvania to conduct your own audit of our recycling process.



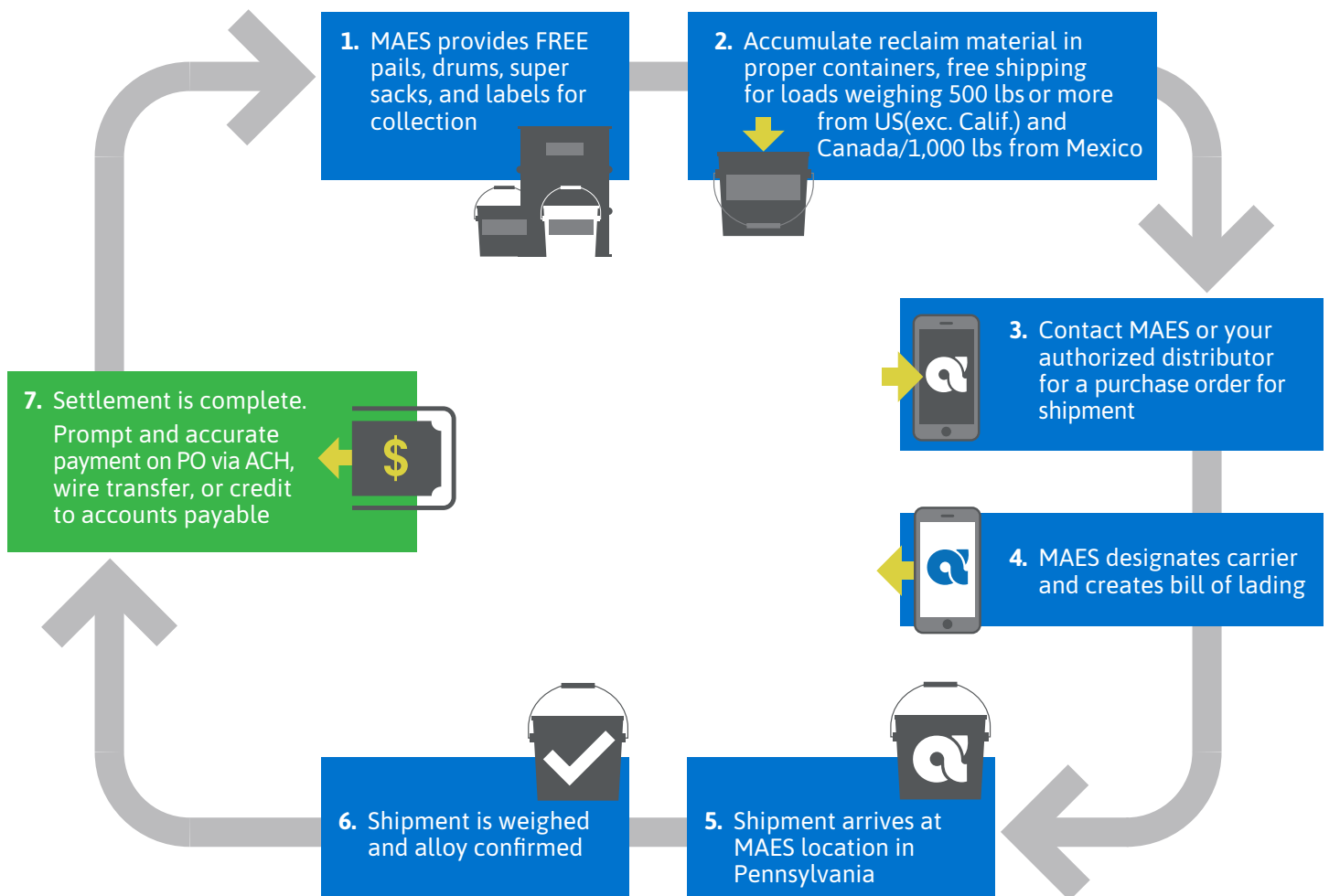
# Metal Reclamation Services

Benefit From Our Experience



MacDermid Alpha Electronics Solutions (MAES) is the largest solder manufacturer and recycler in North America. Below is a simple guide to assist you through the collection, shipping, and payment processes.

## PROCESS FLOW SUMMARY



# Metal Reclamation Services

Benefit From Our Experience



## RECLAIM MATERIAL TO SHIP TO MACDERMID ALPHA

- Unused and expired solder paste, scrap, partially filled jars
- Used cartridges, syringes, gloves, wipes
- Pot dump from wave and selective soldering machines
- Dross from wave soldering
- Populated scrap boards

|                                                     | Super Sack                                                                        | 2.5 Gallon Collection Pails                                                       | Gaylord                                                                            | 55 Gallon Drum                                                                      |
|-----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                     |  |  |  |  |
| Unused or expired solder paste, scrap               |                                                                                   | ✓                                                                                 |                                                                                    | ✓                                                                                   |
| Jars, cartridges, syringes, gloves, wipes           | ✓                                                                                 |                                                                                   | ✓                                                                                  | ✓                                                                                   |
| Pot dump                                            |                                                                                   | ✓                                                                                 |                                                                                    | ✓                                                                                   |
| Dross                                               |                                                                                   | ✓                                                                                 |                                                                                    | ✓                                                                                   |
| Scrap boards (populated separated from unpopulated) | ✓                                                                                 |                                                                                   | ✓                                                                                  | ✓                                                                                   |
| Cast ingots                                         |                                                                                   |                                                                                   |                                                                                    | ✓                                                                                   |

# Metal Reclamation Services

An Easy Step-by-Step Process

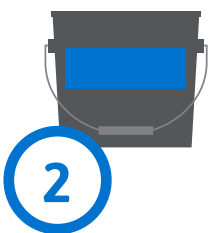


## COLLECTION TIPS



- Collect minimum quantity of material to qualify for free freight. 500 lbs from US(exc. Calif.) and Canada/1,000 lbs from Mexico.
- Every container or package must have a cover and a label.
- Paste should be scraped directly into collection pail.
- Empty jars, syringes, cartridges, cassettes, gloves, and wipes should be collected in a gaylord, super sack or drum.
- If possible, containers should be palletized and shrink wrapped. When shipping drums, 4 drums per pallet. MacDermid Alpha will provide plastic pallets upon request to any supplier in Mexico or Canada. If wooden pallets are used, they must include the correct ISPM 15 stamp or the shipment will be refused. Metal or plastic pallets do not require ISPM 15 identification.
- Items NOT accepted include electronics in their original housings (monitors, laptops, phones, batteries), any material in liquid form and paste flux containing no metal.

## LABELING PROCEDURES



Shipping labels will be provided for all shipments and container types. Labels will correspond to the contents of the container – tin-lead/hazardous and lead-free/non-hazardous wastes. All shipments require a PO# to be included on the label. Alpha's reclaim staff will assign the PO# for your shipment.

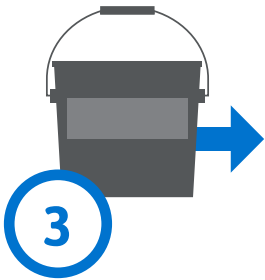
- **Important to use proper label for type of reclaim material.**
- **Important to put PO# on each label (prevents delays upon receiving and payment).**

# Metal Reclamation Services

## Shipping and Payment



### SHIPPING PROCEDURES



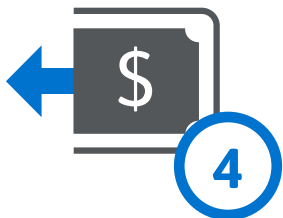
MacDermid Alpha's reclaim team assists with arranging transportation and provides customers with all required shipment documentation.

Once details of shipment are settled, MacDermid Alpha will arrange transportation and email the required bills of lading and any additional documents that may be required for your shipment. Customers coordinate pick up appointments with the designated carrier.

MacDermid Alpha will pay the freight on all shipments over 500 lbs from US(exc. Calif.) and Canada/1,000 lbs from Mexico.

Shipments from California and Mexico must be manifested. MacDermid Alpha coordinates with transportation service provider to complete all necessary documents, including manifests, if required.

### PAYMENT

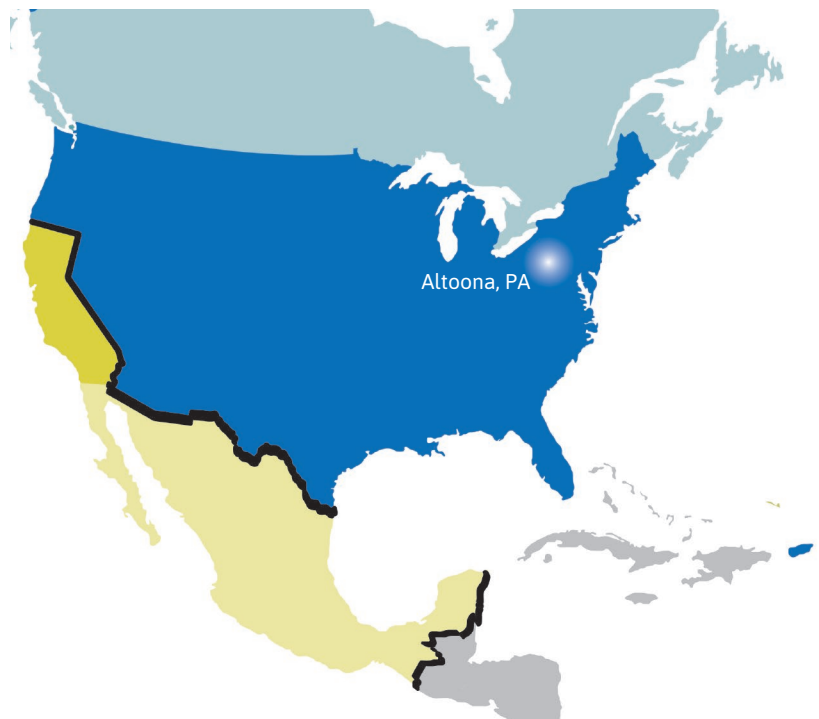


MacDermid Alpha's automated receiving process allows for prompt and accurate settlement once materials are received at the reclamation facility in Altoona, Pennsylvania.

Customers may receive payment by ACH, wire, or as a credit to accounts payable.

 **Canada and USA (except California):** no manifest required

 **Mexico and California:** manifest required



# Metal Reclamation Services

## FAQs



**Q: Can I ship liquids?**

**A:** No liquids of any kind are accepted.

**Q: Can I send paste flux?**

**A:** No. There is no metal to recycle in paste flux.

**Q: Is dross a hazardous waste?**

**A:** No. It is considered a by-product of the wave soldering process, except in Mexico and California.

**Q: Is paste scrap or paste debris hazardous waste?**

**A:** No. It is considered an unused commercial chemical product, except Mexico and California.

**Q: How is pricing established?**

**A:** Pricing is based on the London Metals Exchange (LME) metals price on the day the PO is issued. For larger shipments, the price can be set the day after processing is witnessed.

**Q: How do I check the price of metals?**

**A:** You can check daily at [kitco.com](http://kitco.com)

**Q: What trucking company will be used?**

**A:** MacDermid Alpha will select the carrier; customer makes arrangements at their convenience for pick-up.

**Q: Is Alpha licensed to export Nationalized Reclaim Material to the US from Mexico?**

**A:** Yes. MacDermid Alpha has been issued license #0001770 to export nationalized solder reclaim material from SEMARNAT (Secretaría de Medio Ambiente y Recursos Naturales).

**For additional questions,**

contact your local Reclaim Specialist at [recycle@macdermidalpha.com](mailto:recycle@macdermidalpha.com).

# Metal Reclamation Services

## Contacts



<https://www.macdermidalpha.com/products/circuit-board-assembly/solder-recycling>

## United States/Canada Team

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