

# Reclaim and Recycle

**INDIUM • GALLIUM • GERMANIUM • TIN**



**Indium Corporation** offers a recycling program for reclaiming indium, gallium, and germanium metals from industrial products that have reached their end of life at the customer's point of use. Potential reclaim material should be largely intact with respect to their original elemental composition, while their original shape or form might have changed, such as material from spillage or machining during processing.

For example, an ITO sputter target used to make flat panel displays will develop a racetrack pattern from a strong magnet inside the deposition chamber during sputtering. At a certain point, the pattern renders further use of the target impossible, while the elemental composition of the target is, of course, still the same.

Scrap material of this type contain valuable metal that is available for further use in the industry once these parts are reprocessed into their underlying base metal.

We accept incoming material in a wide variety of shapes, forms, and compositions. An internal test will assess the indium (or gallium/germanium) content and the complexity of reclaiming the base metal.

We will then provide you with a quote of the value of the material, or we can credit this value toward the purchase of new material (e.g., in ingot form or as an alloy usable in your production process).

## **We offer indium reclaim services for:**

- ITO/IGZO sputtering targets
- Sludges containing H<sub>2</sub>O and/or organics from machining or grinding
- InP crystals and wafers
- Indium-containing solder preforms (any shape)
- Indium-containing wire, bar, foil, ribbon, and powder
- Indium-containing alloys
- Germanium cakes from optical fiber preform production
- Gallium-containing material, such as gallium alloys or gallium chlorides
- Indium/indium-tin material left over from target bonding
- Cryogenic seals containing indium



Learn more: [www.indium.com/reclaim-and-recycle](http://www.indium.com/reclaim-and-recycle)

Contact us: [indiumreclaim@indium.com](mailto:indiumreclaim@indium.com)

**From One Engineer To Another<sup>®</sup>**

©2020 Indium Corporation

Form No. 99807 R0



# Reclaim and Recycle

**INDIUM • GALLIUM • GERMANIUM • TIN**

Our reclaim facilities are located in the USA (Central New York and Chicago) and South Korea.

Please contact your regional sales representative or the expert listed below with further questions. Our team will explain all the steps in our recycling program—from shipping the material to Indium Corporation through assaying, quoting, processing, and settlement.

Indium Corporation is a premier materials manufacturer and supplier to the global electronics, semiconductor, thin-film, and thermal management markets. Products include solders and fluxes; brazes; thermal interface materials; sputtering targets; indium, gallium, germanium, and tin metals and inorganic compounds; and NanoFoil®. Founded in 1934, the company has global technical support and factories located in China, India, Malaysia, Singapore, South Korea, the United Kingdom, and the USA.

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

## *Contact our expert:*

### **Shuyan Peng**

Strategic Sourcing Buyer

speng@indium.com

+86 158 5147 8399



Learn more: [www.indium.com/reclaim-and-recycle](http://www.indium.com/reclaim-and-recycle)  
[indiumreclaim@indium.com](mailto:indiumreclaim@indium.com)

**From One Engineer To Another®**

©2020 Indium Corporation

Form No. 99807 R0

