



Welcome to WorldTech's World of Value Through Precious Metal Refining

If we could distill down your chief concerns about your precious metals recycling program, would your primary concerns sound something like this?

- *Your company's money is on the line*
- *Your environmental liability is of critical importance*
- *Your proprietary/sensitive materials must be destroyed in a secure manner*
- *Trust, an open door policy and a good track record are paramount.*

We will address and alleviate each of your concerns - and more. WorldTech works hard to return the best degree of value on your materials by building an efficient, smooth-running, compliant, low-maintenance recovery program suited exactly to your demands. And we've been doing it this way for almost nearly 100 years, meeting every challenge in refining that our customers bring to us.

Doing business with WorldTech Recycling Systems means you will have access to

- Custom precious metal programs that fit your exact needs and comfort level.
- Master metallurgists and specially trained sales consultants to support you.
- A complete assay laboratory on premises for accurate analysis of all your materials.
- A true recycler that practices complete environmental stewardship.
- Secure destruction including optional online access for ITAR compliance or sensitive materials.
- Flexible settlement options to meet your individual demands and preferences.
- Hazardous and LTL transportation programs that fit your needs and budget.
- Transparency and accountability in our operations and financials.
- Site visits, witnessing and environmental audits at our facility.

Our position as a leader in refining, along with advanced refining technologies, time-tested metallurgical proficiency, straightforward business practices and a pristine track record, make us the refiner of choice for so many corporate and small business clients. Why trust anyone else but WorldTech Recycling Systems?

Meet with your WorldTech representative by phone or in person to arrange next steps. In the meantime, you will find the enclosed materials helpful in gaining a greater insight into our competencies, technologies and solid industry reputation.

We serve precious metal clients in the United States, Canada, Mexico, Puerto Rico and the Dominican Republic.



WorldTech Recycling Systems Precious Metal Refining – Materials We Process

PLATING

Rejected Plated Parts	Spent Cyanide Solutions
Rack Pins, Hooks, Weights	Precious Metal Salts
Plating Media, Filler Beads	Sludges
Cathodes	Slags
Electrolytic Tank Screens	Gold Fingers
Filters	Printed Circuit Trims
Flake	Lead Frame
Ion Resin Columns	Connectors
Anode Swords	Danglers

SURFACE MOUNT TECHNOLOGY

Obsolete Inventory of Integrated Circuits/Components
Obsolete Printed Circuit Boards
Rejected Boards
Connectors, Pins and Other Plated Material
Printed Circuit Trims
Solder Dross
Lead-Free Solder Alloy
Solder Paste, Jars, Rags & Wipes
Copper/Tin Plated Leads

MICROELECTRONICS

Ceramic Substrates/Rejected Parts	Flake/Scrapings
Spent Rags/Wipes and Paste Jars	Bead Blast Materials
Bell Jars, Rings and Shields	Semiconductor Wafer Scrap
Spent Solvents	Foils Containing Residues
Precious Metal Pastes	Iodine Etch Solutions
Dangler Wire	Gold Bonding Wire
Deposition Targets	

METAL FABRICATION and OTHER INDUSTRIAL PRODUCTS

Tool & Die Scrap, Plated	Jewelry Scrap
Swarf (turnings)	Bar or Wire Stock
Precious Metal Dusts, Powders	Spent Silver Oxide Batteries
Floor Sweeps	Spent Crucibles
Spent Petrochemical Process Catalyst	



WorldTech Recycling Systems

Challenging Metals – We process what they will not

WorldTech Recycling Systems has the know-how and technologies to refine what many others will not: Your precious metal-bearing materials containing

- *Beryllium Copper*
- *Beryllium Oxide*
- *Cadmium*
- *Gallium Arsenide*
- *Silver Cadmium Oxide*

Research and Testing

Challenge: Process analyses were conducted on-site at our Elizabeth, NJ refinery alongside environmental health & safety studies, in connection with certain unsafe compounds and metals.

Outcome: WorldTech Recycling Systems is proficient at harnessing our refining technologies to consistently and accurately extract the value from materials containing BeCu, BeO, Cd, GaAs or AgCdO. And we do this while achieving total environmental compliance and employee safety.

How often have you heard a comment such as, “Beryllium? Sorry, we can’t take that.”

If your refiner is WorldTech Recycling Systems, *not often*.

What does this mean to you?

More value. We all know that value isn’t determined solely by our customers' bottom lines. It is also found in our refining expertise, uncompromising employee safety programs and environmental stewardship...across the wide range of roles we take on as your precious metal refiner.

WorldTech Recycling Systems has the proven processing technologies you can depend on for every one of your refining needs. Call us today for more details. Allow us to put our superior capabilities to work in a refining program designed specifically for you and your challenging metals.



Process Capabilities and Equipment

Our EPA-permitted refinery:

- Offers the most advanced equipment for recovering gold, silver, platinum, palladium, rhodium and copper from solids, liquids, sludge and powders.
- Operates under Federal Regulation 40 CFR 266, Sub. F and all New Jersey State EPA rulings governing the processing of precious metals.
- Is permitted by the U.S. EPA to receive and process precious metal bearing hazardous waste including F001-F009, D001-D004, and D006-D011 - listed wastes. We are hazardous waste experts.

Refining Equipment and Processes:

- **Pyrometallurgical technologies**: 8 melt furnaces to process any quantity in any specified manner, per your order.
 - **Thermal Reduction**: 2 burn furnaces with afterburners to reduce a variety of burnable materials prior to the metals melt phase.
 - **Ball milling**: Ash from reduction is milled and separated into tails (oversized) and fines. Fines are weighed and sampled for an accurate assay sample. Tails are then melted and sampled separately.
 - **Plate out**: Solutions are electroplated onto copper using the latest technologies for minimal metals loss, then melted and sampled.
 - **Strip technologies**: Your plated materials are processed through advanced strip solutions and rinsed, assuring complete removal of precious metals from your scrap.
 - **Vibratory milling, Evaporator, 3 Chopping Lines, Magnetic Separators and Sludge Mixer** are used to process a host of other precious metal-bearing materials.
 - For a partial list of scrap types, see enclosed sheet entitled *Materials We Process*.
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- Your materials are safe in our high-security facility. Our plant is staffed by security guards, monitored by CCTV, and accessible only through coded, magnetic ID badge stations and metal detector gates.
 - Quality Assurance: Our refinery is ISO 9001 and 14001-certified for management and environmental quality standards.
 - We audit all of our downstream vendors; environmental accountability is complete.
 - Visit us. We welcome environmental and site visits for representation and witnessing.



Other Sources of Value in your materials

In addition to precious metal refining, WorldTech Recycling Systems also offers

- Integrated Circuit Recovery—when you have excess inventories of ICs and/or populated boards with ICs that can be harvested and resold.
- Resale of excess and obsolete inventories such as connectors, whole units—any and all inventories of electronics with potential market value.

IC Recovery and Resale

If you have non-sensitive electronics in the form of excess IC inventories or pc boards populated with ICs, those with market value can be harvested and resold on secondary markets. With numerous product lines and part numbers available—plus our vast network of international dealers and brokers— WorldTech Recycling Systems sells between hundreds of thousands of ICs, passives and other devices each month.

Our Integrated Circuit recovery unit knows value and how to help you find more of it in your end-of-life asset management program.

If your company manufactures or distributes the materials discussed here, speak with a WorldTech Recycling Systems representative today, and get more details.



WorldTech Recycling Systems Precious Metal Refining

Refining Facility Data:

Profile: Primary and Secondary Precious Metals Refining & Asset Management
Annual Capacity: 8,000,000 pounds
Site: 75,000 sq. feet
Standards: ISO 9001 and 14001 Registered
Approvals: US EPA, NJ EPA, US DOT for Hazardous Waste Receiving and Processing

Processing Equipment: 8 Melt Furnaces; 2 Burn Furnaces with Afterburners; Ball Mill; Vibratory Mill; Metal Stripping Tank; Plating Tanks; Rinse Tank; 3 Chopping Lines; 2 Magnetic Separators; Evaporator; Sludge Mixer; Complete Assay Laboratory.

Contact:

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Operating Hours: Office: Monday through Friday 7:30 am to 5:00 pm
Plant: Monday through Friday 6:00 am to 4:30 pm

Location: 1205 Fairmount Avenue
Elizabeth, NJ 07201



3 More Reasons to trust in WorldTech Recycling Systems for precious metals refining

Environment

Recycling and environment should be synonymous in spirit and evident in practice. WorldTech Recycling Systems daily underscores this in the following ways:

- Before shipping, environmental details of your materials are gathered and profiled to ensure our complete compliance from shipment through final disposition.
- Your hazardous wastes are transported in strict accordance with all USDOT regulations and processed in our EPA-permitted, zero-discharge facility.
- Plant facilities are monitored continually for air quality inside and out.

When we process your materials, we become partners in protecting the environment. WorldTech Recycling Systems assures compliance with all applicable federal, state and local regulations, minimizing your cradle-to-grave environmental risks and liability.

Protect

To maximize the health and safety of its employees on a global basis, WorldTech Recycling Systems has an unmatched employee/plant safety program—comprised of a system managing health and safety at all of its sites throughout the world. WorldTech Safety incorporates 4 key elements:

- 1) A safety vision based on a robust set of safety principles and policies.
- 2) A strategic framework for the management of safety.
- 3) A set of essential safety management standards.
- 4) A set of Safety Golden Rules.

Sustainable Development

WorldTech Recycling Systems consistently practices Sustainable Development, which can be defined as development that meets the needs of the present without compromising the ability of future generations to meet theirs. The Precious Metal division is committed to:

- Renewing the supply of new metals for commerce and industry through our metallurgical expertise and recovery processes
- Innovation in our processing technologies for greater efficiency in recycling and refining
- Consistent, never-ending improvement in every aspect of our business
- Protecting our employees and the environment as our duty and legacy to future generations.



You and WorldTech: The Next Step

Thank you for your interest in our company and capabilities. We now invite you to bring any questions and concerns you still have to the table. Your representative is more than ready to take discussions to the next level and implement your new recovery program. Our long and short term goals are to:

- Show you in real time how we recover the maximum value from your materials.
- Exhibit constant improvement on our part as your refining partner.
- Develop new business within your precious metals program, adding value to our services.
- Continue trust and show that we care as much about your valuable assets as you do.

We want to hear from you!

If you still have technical questions, have you received our technical materials?

If you propose a next step different from ours, what would that be?

Between now and your next conversation, please take a brief moment to log onto our website:
www.worldtechrecycling.com

There you'll read important news and information that could impact your industry and put you at the front of the pack. Then call to discuss how we can move forward in your program with you.

Your WorldTech representative looks forward to speaking with you soon.

WorldTech Recycling Systems - Together with you we are making a difference in Recycling.

WorldTech Recycling System Precious Metal Refinery

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