Global Tungsten & Powders Corp.

Powders That Shape Your World
INTRODUCING GTP

Global Tungsten & Powders Corp. (GTP) is headquartered in Towanda, PA in Northeastern Pennsylvania. GTP’s sister plant is located in Bruntal in the Czech Republic. GTP’s primary emphasis is the manufacture of tungsten and molybdenum powders with additional emphasis on other specialty products. GTP is a world leader in powder technology, high temperature metallurgy, and inorganic chemistry. GTP holds a strong global position in the development and production of inorganic phosphors and related chemicals.

In 2008, GTP was acquired by Plansee for its strategic value and core capabilities. The successful integration has expanded the Plansee Group and strengthened GTP’s core businesses and global market position.

The future for GTP looks very bright as it targets new products in the Energy Exploration, Green Energy, Hard Materials, and Defense Markets. With the considerable experience and resources of the Plansee Group, GTP continues to invest in manufacturing and R&D and is well positioned for years to come.
VISION

GTP’s vision is to be the leading western supplier of choice with a global footprint for refractory metal powders and specialty products by providing our customers with security of supply and continuous product improvement.

MISSION

GTP’s mission is to develop, manufacture and market refractory metal powders and specialty products. We accomplish this through sustained investment in manufacturing and R&D, providing technical support, securing an independent raw material supply chain, and establishing a culture of strong company values and customer collaboration.
BENEFITS OF WORKING WITH GTP

Product Consistency
Delivery Schedules That Meet Your Needs
Cooperation With Our Customers
Stability of Supply
Technical Support
Product Knowledge
Product Customization
GTP IS A GLOBAL LEADER

GTP is a leading producer of products and services for a range of markets including Hard Materials, Energy, Automotive, Defense, Aerospace, Lighting, Electronics, and others. GTP has developed new products for many key customers within these markets that have allowed us to be on the forefront of numerous market trends. From development to production, we are committed to meeting the needs of all our customers.

GTP’S EMPLOYEES ARE THE KEY TO SUCCESS

Our people drive our progress. The people that live in our communities are engaging, have a strong work ethic and are committed to success. Continuing education plays an important part in our employee development, an example of which can be seen in our lean and six sigma programs. We currently have over 80 employees trained in six sigma practices and more than 60 trained in the use of lean tools. From R&D to manufacturing our workforce is dedicated to delivering the highest quality products on time, every time.
GTP IS MORE THAN A VENDOR WE ARE YOUR PARTNER

With roots dating back to the early 1900’s, GTP has proven to be an enduring company and reliable partner. For nearly 100 years, collaboration with our customers has been at the forefront of our business strategy. Partnering over the years with many of the biggest names in the hard materials, lighting, energy and thermal spray markets we have been able to develop products that meet and exceed the changing and demanding characteristics required by our customers while at the same time working to increase productivity and reduce costs. Utilizing our global presence, we continue to work closely with customers all over the world solving tomorrow’s challenges today.

FACTS AND FIGURES

Headquarters
Towanda, Pennsylvania
approx. 500 employees
40+ buildings

Bruntal, Czech Republic
approx. 80 employees
2 buildings

Jyväskylä, Finland
approx. 40 employees
1 building
GTP is comprised of several businesses - Refractory and Specialty Powders, Government/Aerospace, Lighting and a new business unit - Power Generation, which is on the forefront of the green energy frontier. We have manufacturing facilities in the United States and Europe and sales support in offices throughout the world.

Refractory and Specialty Powders (Towanda, PA and Bruntal, Czech Republic) – Ammonium Metatungstate, Ammonium Paratungstate, Tungsten Oxide, Tungsten Powders, Tungsten Carbide, Ready to Press Grade Powders, Tantalum Carbide, Cobalt, Scrap recycling, Use Testing

Government/Aerospace – Projectiles, Spheres, Billets, Rod and Ingot, Tungsten Heavy Alloy Parts, Gold Plated Wire

Power Generation – Interconnect plates, LSM Powder
Powders That Shape Your World
RESEARCH AND DEVELOPMENT

GTP’s scientists and technicians conduct basic and applied chemical and metallurgical research for process and product development. Our staff develops new products, improves existing products and devises new manufacturing techniques to lower costs and increase production and productivity. Currently holding hundreds of patents, our R&D group continues to push the boundaries of luminescent phenomena and the chemistry and technology of tungsten and molybdenum and their alloys.

MATERIALS ANALYSIS

An on-site analysis group supports R&D and manufacturing with complete materials characterization using a wide range of instrumentation. Our analysis lab is capable of detailing material to its basic components using testing methods including inductively-coupled plasma spectrometry, scanning electron microscopy, sputtered neutral mass spectrometry and a number of other procedures combining to create one of the best equipped materials analysis facilities in the country. Our facility is accredited for chemical and mechanical testing by the American Association for Laboratory Accreditation recognizing that we meet the standards set forth by ISO/IEC 17025, “General Requirements for the competence of Testing and Calibration Laboratories.” The GTP materials analysis facility also operates in accordance with ISO 9001-2008.

QUALITY SYSTEMS

No material leaves our facility without undergoing a wide ranging series of quality checks ensuring our products meet our customers specifications. With eight quality labs, extensive materials analysis capabilities and an ISO 9001 designation we have maintained for over 15 years, GTP’s commitment to quality is clear. Our quality slogan Error Free + On Time + Continuous Improvement = Satisfied Customers serves as a guideline for running our business and helps ensure our role as a global leader in all aspects of our operation.
REFRACTORY AND SPECIALTY POWDERS

Located in Towanda, Pennsylvania and Bruntal, Czech Republic our production facilities combine to create a world leader in the development, production and recycling of tungsten, molybdenum, cobalt, and tantalum powder products. Beginning with an expansive chemical process, GTP manufactures chemical products including Ammonium Paratungstate (APT) and Ammonium Metatungstate (AMT). From these and other chemicals, we manufacture engineered powders including tungsten metal powders, tungsten carbide powders, ready to press grade powders, thermal spray powders and molybdenum powders. GTP also has the ability to reclaim other metals from carbide scrap complimenting our tungsten production with cobalt powder and tantalum carbide powders. GTP also manufactures high quality molybdenum powders. GTP powders can be found in numerous markets including Electronics, Energy Exploration, Construction, Hard Materials, Aerospace, Automotive, Medical and many others.

CUSTOMER FOCUS

Working closely with our customers, GTP strives to develop powders to meet the needs of tomorrow. In addition to our R&D and manufacturing capabilities, we are equipped with physical and use test laboratories to provide our customers with both powder and sintered properties for our products.

CONSISTENT AND SECURE SUPPLY

From tungsten ore – Wolframite, Scheelite, Synthetic Scheelite, Ferberite, Hubnerite – to tungsten hard and soft secondary raw material – GTP is one of the most diverse facilities in the world in regard to the variety of feed materials we are able to process. This flexibility allows us to maintain a competitive advantage and consistent supply.

Through our partnerships with tungsten mines across the globe, GTP secures a critical supply chain. We do not source any tungsten or molybdenum ore from China or conflict regions in Africa ensuring a stable supply of raw material for GTP and our customers.
GOVERNMENT / AEROSPACE

GTP has been a valued supplier to the Defense industry for over 60 years. GTP has a dedicated R&D staff in this area and has invested heavily in state-of-the-art equipment. GTP manufactures products used in projectiles, aircraft, fuses, radar technology, satellites, and other defense/aerospace products. Our tungsten and molybdenum materials offer properties that are beneficial in these applications and our powders are made to exacting specifications and are of a very high purity.

CUSTOMER FOCUS

Collaboration with our customers is essential to development in this industry. Many of the products we manufacture are for new and cutting edge applications. Our on-site R&D and testing facilities make it possible for us to advance our customers products beyond even their expectations. Partnering to develop next generation solutions within the defense and aerospace industry assures your success and ours.

SECURITY OF SUPPLY

Security of supply takes on a new meaning in the defense industry. Our goal is to offer you the peace of mind that comes from knowing GTP can supply your material whenever you need it. Because of our fully integrated supply chain, manufacturing capacity and partnerships with raw material suppliers GTP maintains a stability of supply that is unmatched by Western suppliers.
POWER GENERATION

SOFC technology has proven itself to be on a similar path as several other alternative forms of energy, such as solar, wind, and fuel cell. Technology advancements and successful pilot projects have led to the SOFC manufacturing scale up that is now underway. GTP has made a substantial investment in its first manufacturing line of Solid Oxide Fuel Cell (SOFC) interconnect plates. These plates play a critical role in the SOFC technology and will be greatly responsible for its success in the marketplace. So, for GTP and its customers, these products are very important to future growth.

CUSTOMER FOCUS

GTP has designed a process that will supply a highly technical product for a very demanding application made to a tight quality standard. GTP understands the importance of this product, is focused on quality and has made a real commitment to its customer and looks forward to continued collaboration assuring future success.

SECURITY OF SUPPLY

The various materials used for these parts are critical to success. Security of supply and having the best material available is critical to being able to produce such a demanding part. GTP has developed a supply chain that will help to ensure there are no delays or shortages in raw material supply. GTP also ensures that none of our materials used originate from any conflict regions.
EnVIronMEnT

At GTP, we have the highest regard for the environment. Our production facilities, located in rural parts of the United States and Czech Republic allow for a special bond with our natural surroundings. Because many of us spend much of our time outdoors, we understand the need to adhere to the guidelines set forth in the ISO 14001 program. We have spent millions of dollars maintaining and upgrading our waste disposal systems, material recovery systems and other environmental protection equipment. We will continue to upgrade and maintain these systems in an effort to preserve our planet for future generations.

In line with our commitment to the environment, GTP has been recycling tungsten containing materials for over 40 years. Through our tungsten recycling program, we take secondary raw material (tungsten inserts, grinding sludge, drill bits, etc) and produce tungsten chemicals and powders that are indistinguishable from those made from virgin raw material. In addition to tungsten powders, we also reclaim cobalt, tantalum and nickel. By capturing and reusing these materials, we are not only conserving critical natural resources but also helping to provide our customers with a stable and secure source of raw material.

At GTP Tikomet we recycle tungsten powders through the zinc reclaim process, providing powders that can be used in traditional hard material products and markets. With the acquisition of Tikomet in Finland, GTP now offers the widest variety of products (APT, W, WC, Co, Ta, Grade, etc.) and recycling (zinc, chemical, tolling) capabilities in the hard materials industry.
CUSTOMER FOCUSED

At GTP we understand that a commitment to our customers is a requirement not a convenience.

Our dedicated internal sales group will work closely to help you order the products that best suit your needs and will act as your liaison from the time you place your order until you receive it.

Our technicians and engineers regularly discuss product requirements with current and potential customers and are ready to help you determine exactly what material meets your specifications.

If an existing product does not meet your needs, our on-site R&D group is available to collaborate with you to develop the material you require.

With our global sales organization and our international production capability, we are well positioned to meet your needs anytime anywhere! With all our customers, it is our goal to not simply sell products but to become your partner always keeping the future in mind.
RAW MATERIAL SOURCING

We exercise due diligence to ensure socially and environmentally responsible sourcing of raw materials and other goods in our supply chain. To ensure we adhere to these standards GTP takes several steps including:

- Commitment to long term supply contracts and off take agreements that are based on mutual trust and sustainability.
- Conduct due diligence of new suppliers focusing on: quality, environment, health & safety, human rights, labor standards, anti-corruption.
- Pursue a recycling philosophy that is based on
  - long-term agreements with customers to return secondary raw materials
  - active re-feed of secondary raw materials into the raw materials cycle.
- Exercise regular supplier audits to ensure
  - traceability of raw materials and other goods
  - that our suppliers do not source or use material from conflict regions and adhere to international standards and regulations.
- Perform regular audits of our purchasing activities by independent auditors ensuring we comply with all above mentioned commitments.
- We regularly educate and train our employees involved in purchasing raw materials and other goods on the implications of the Code of Conduct and on relevant market developments.
The information and recommendations contained in this publication are based upon data collected by Global Tungsten & Powders Corp. and believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein, and Global Tungsten & Powders Corp. assumes no responsibility for the results of the use of products and processes described herein. No statements or recommendations made herein are to be construed as inducements to infringe any relevant patent, now or hereafter in existence. 

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