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### Titanium Statistics in the United States

**Written by Joseph Gambogi, U.S. Geological Survey, Minerals Information Team** — How much titanium is produced in the United States? The U.S. Geological Survey (USGS) through its Minerals Information Team is the primary source of information on the domestic supply and demand for titanium metal as well as all of the other nonfuel minerals that are of such critical importance to our economy. In its quarterly Mineral Industry Surveys (MIS) and annual Minerals Yearbook (MYB), the USGS publishes production, consumption, exports, imports, and stocks of titanium sponge, ingot, mill products, and castings. With sufficient industry participation, future MIS and MYB reports are expected to include titanium end-use statistics. Much of the data published in these USGS reports is derived from voluntary surveys of domestic producers and consumers. In addition to survey data, the reports contain U.S. Bureau of Census trade statistics as well as industry news and published prices for selected products. Readers interested in receiving an e-mail notice when titanium MIS or MYB publications become available on-line, may subscribe to the MI-TITANIUM list service. For more information, refer to USGS Minerals Information Publication List Services.

Table 1 (see page 4) summarizes year end titanium metal statistics for 2001 and 2002. Decreased demand for titanium from the commercial aircraft industry caused domestic production and consumption of titanium metal products to decrease significantly in 2002 compared with those of 2001.

*Continued on page 4*

### Matthew J. Thayer Named North American Director of Sales & Technology at AstroCosmos Metallurgical

April 2003 Camarillo, CA- Matthew J. Thayer has been promoted to North American Director of Sales & Technology at *AstroCosmos Metallurgical*, Camarillo, CA. In his new capacity, Mr. Thayer will be responsible for all sales and marketing in North America while retaining a portion of the global technology responsibilities.

Mr. Thayer has been with the company for over eight years, most recently as Technology and Materials Director, responsible for the education of national and international regional sales managers and end-customers regarding materials selection and equipment design. He is the Technical Representative for AstroCosmos to the Material Technology Institute (MTI) and International Titanium Association as well as a member of the National Association for Corrosion Engineers (NACE). He has published numerous papers for NACE, AISE, the Australian Hydrometallurgical Conference, ALTA and is currently participating in the International Titanium Specification Review.

Prior to his position with AstroCosmos Metallurgical, Mr. Thayer held positions as western region sales manager and project manager with *The Youngstown Welding & Engineering Company*, Youngstown, OH. Before that, he was a sales engineer and repair specialist at
What’s New in Titanium?

TIMET Announces Funding to Develop New Titanium Technology

DENVER, April 4 /PRNewswire-FirstCall/ -- Titanium Metals Corporation ("TIMET") (NYSE: TIE) announced today that it has been selected by the United States Defense Advanced Research Projects Agency ("DARPA") to receive approximately $12.3 million in government funding over the next four years to lead a program aimed at commercializing the "FFC Cambridge Process." The FFC Cambridge Process, developed by Dr. Derek Fray and others at the University of Cambridge, represents a potential breakthrough technology in the process of extracting titanium from titanium-bearing ores.

As part of the program, TIMET will be leading a team of scientists from major defense contractors, including General Electric Aircraft Engines, United Defense Limited Partners and Pratt & Whitney (a division of United Technologies Corporation), as well as the University of California at Berkeley and the University of Cambridge. In connection with the program, TIMET has negotiated a development and production license for the FFC Cambridge Process technology from British Titanium plc. TIMET will conduct the development work at its technical laboratory in Henderson, Nevada.

Commenting on the program, J. Landis Martin, TIMET's Chairman, President & CEO, said, "TIMET is very honored that its proposal to lead this development effort was selected by DARPA after consideration of a wide variety of submissions from other leading companies in this field. While there is a great deal of work to be done and success is by no means a certainty, we see this as a very significant opportunity, working with some of the leading minds in titanium metallurgy, to achieve a truly meaningful reduction in the cost of producing titanium metal. If successful, we believe this would not only make titanium a more attractive material choice within the aerospace industry, but also open the doors to many new opportunities to use titanium in other non-aerospace applications where its cost might have been an obstacle."

TIMET, headquartered in Denver, Colorado, is a leading worldwide producer of titanium metal products. Information on TIMET is available on the internet at www.timet.com. For more information contact:

Bodycote Improves XM777 Lightweight Howitzer

Bodycote Los Angeles in partnership with Hydro-Mill Company has successfully heat treated the first article titanium base for the next generation XM777 lightweight howitzer. This is part of a joint venture between the US Marine Corps and US Army program aimed at replacing the towed howitzer used by both services. The base is in excess of 750 pounds and is manufactured from 6-4 ELI.

Bodycote Thermal Processing has a 25 year reputation for total reliability and unrivalled expertise in all significant heat treatment processes. For more information visit Bodycote at www.bodycote-na.com.

M. Thayer Named North American Director of Sales & Technology continued from page 1

Badger Industries, Zelienople, PA. He is a graduate of Edinboro University of Pennsylvania. He currently resides in Cranberry Township, PA, with his wife, Staci, and their son, Matthew Jr., 2½.

AstroCosmos Metallurgical is the world leader in process equipment designed and constructed of titanium, zirconium, tantalum, niobium and nickel alloys. They are a division of Groupe Carbone Lorraine. For more information contact: Bill Martin at (818) 879-7955

(continued from column 1)

Stephen Fox, of Titanium Metals Corporation at stephen.fox@timet.com.

Get Noticed! Send your press releases to sjorgensen@titanium.org!
Get Noticed—Low Cost Advertising

The ITA Tradeshow Banners allow your organization to flash your logo at upcoming tradeshows. Receive additional advertising for only $99. The custom logo-ed banner will be hung on the ITA booth and read, "ITA Booth Sponsored By ..." and will display all logos. This is an excellent opportunity to get additional advertising coverage to the tradeshow attendees.

**Aeromet Banner sponsors include:**
- Allegheny Technologies Incorporated
- Dynamet Technologies
- Howmet Corporation
- Perryman Company
- RTI International Metals, Inc.
- Solar Atmospheres Incorporated
- Stratcor Performance Materials, Incorporated
- TechSpec Incorporated
- TIMET
- Titanium Industries Incorporated
- United Titanium Incorporated
- VSMPO-AVISMA
- Vulcanium Metals International

Sponsorships Still Available

Take advantage of marketing your company’s presence at the 19th Annual Conference & Exhibition. By participating in this year’s activities, you can select from a number of valuable programs designed specifically to enhance your marketing efforts. Past sponsors have benefited by increased networking opportunities and product usage as a result of the sponsored relationship.

*Selecting the perfect sponsorship for you is easy.*

1. Simply download & print the Sponsorship form from the ITA website at [www.titanium.org](http://www.titanium.org).
2. Mark your selections according to which grade (level) you would like to participate in.
3. Fax sponsorship registration to the ITA at (303) 404-9111.

Co-sponsorships are also available for some options — for more information, contact the ITA at 303-404-2221.
Titanium Statistics—continued from page 1

In 2002, consumption of titanium sponge and scrap melted to produce titanium ingot, decreased by 34% and 32%, respectively compared with those of 2001. During the same period, consumption of titanium ingot (the feedstock for mill product production) decreased by 40%. Mill product shipments, a gauge of mill product consumption, decreased by 30% compared with those of 2001.

The United States continued its reliance on imports of titanium sponge in 2002. The ratio of net imports (imports-exports) of titanium sponge to consumption of titanium sponge was 46%. The leading import sources of titanium sponge were Kazakhstan (56%), Japan (38%), and Russia (5%).

Compared to its reliance on sponge, the United States is less reliant on imports of scrap and ingot. In 2002, the ratio of net imports to consumption of scrap was 2%. Similarly, the net imports to consumption ratio for ingot was 1%. The leading import sources of scrap were Japan (39%), United Kingdom (15%), and France (13%).

The United States is a net exporter of titanium mill products and castings. In 2002, imports of mill products, castings, and other articles of titanium increased by 26% compared with those of 2001. The leading import sources of mill products, castings, and other articles of titanium were Russia (51%), Japan (21%), and Canada (9%).

In addition to titanium, the USGS collects, analyzes, and disseminates information on the supply of and demand for over 90 minerals and mineral materials. The goal of the USGS with respect to minerals information is to provide decision-makers with the information required to ensure that the Nation has an adequate and dependable supply of minerals and materials to meet its defense and economic needs at acceptable environmental, energy, and economic costs. In addition, the public and private sectors rely on the USGS information to understand better the use of materials and the ultimate disposition of materials in the economy, to use national resources efficiently, and to forecast future supply and demand for minerals. The information is used in the analysis of policies, in formulating plans to deal with shortages and interruptions in supplies of minerals, and in the development of strategies to maintain a competitive position in the global economy. The USGS also conducts analysis of and develops information on minerals-related issues, including minerals conservation, sustainability, availability, and the economic health of the U.S. minerals industry.

### TABLE 1
U.S. TITANIUM METAL SUPPLY AND DEMAND 1/

<table>
<thead>
<tr>
<th>Metric tons</th>
<th>2001</th>
<th>2002</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponge</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Ingot</td>
<td>44,600</td>
<td>22,700</td>
<td>-49%</td>
</tr>
<tr>
<td>Mill products</td>
<td>27,900</td>
<td>19,900</td>
<td>-29%</td>
</tr>
<tr>
<td><strong>Exports:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponge</td>
<td>2,170</td>
<td>2,810</td>
<td>29%</td>
</tr>
<tr>
<td>Waste and scrap</td>
<td>7,500</td>
<td>6,000</td>
<td>-20%</td>
</tr>
<tr>
<td>Ingot</td>
<td>1,510</td>
<td>908</td>
<td>-40%</td>
</tr>
<tr>
<td>Billet</td>
<td>210</td>
<td>261</td>
<td>24%</td>
</tr>
<tr>
<td>Bloom, sheet bar, slab</td>
<td>1,620</td>
<td>1,125</td>
<td>-31%</td>
</tr>
<tr>
<td>Other unwrought</td>
<td>492</td>
<td>352</td>
<td>-28%</td>
</tr>
<tr>
<td>Bars, rods, profiles, wire</td>
<td>3,440</td>
<td>2,680</td>
<td>-22%</td>
</tr>
<tr>
<td>Other wrought</td>
<td>3,260</td>
<td>3,460</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Imports:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponge</td>
<td>13,300</td>
<td>10,700</td>
<td>-20%</td>
</tr>
<tr>
<td>Waste and scrap</td>
<td>11,600</td>
<td>6,270</td>
<td>-46%</td>
</tr>
<tr>
<td>Ingot</td>
<td>2,130</td>
<td>1,080</td>
<td>-49%</td>
</tr>
<tr>
<td>Billet</td>
<td>226</td>
<td>128</td>
<td>-43%</td>
</tr>
<tr>
<td>Powder</td>
<td>160</td>
<td>75</td>
<td>-53%</td>
</tr>
<tr>
<td>Bloom, sheet bars, and slab</td>
<td>38</td>
<td>30</td>
<td>-21%</td>
</tr>
<tr>
<td>Other unwrought</td>
<td>485</td>
<td>362</td>
<td>-25%</td>
</tr>
<tr>
<td>Bars and rods, profiles and wire</td>
<td>999</td>
<td>1,090</td>
<td>9%</td>
</tr>
<tr>
<td>Plates, sheets, strips, and foil</td>
<td>1,090</td>
<td>675</td>
<td>-38%</td>
</tr>
<tr>
<td>Tubes and pipes</td>
<td>224</td>
<td>203</td>
<td>-9%</td>
</tr>
<tr>
<td>Other wrought</td>
<td>214</td>
<td>165</td>
<td>-23%</td>
</tr>
<tr>
<td>Castings</td>
<td>71</td>
<td>15</td>
<td>-79%</td>
</tr>
<tr>
<td>Other articles of titanium</td>
<td>569</td>
<td>535</td>
<td>-6%</td>
</tr>
<tr>
<td><strong>Stocks, end of period:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponge, Government</td>
<td>18,600</td>
<td>13,200</td>
<td>-29%</td>
</tr>
<tr>
<td>Sponge, industry</td>
<td>6,340</td>
<td>11,700</td>
<td>85%</td>
</tr>
<tr>
<td>Scrap</td>
<td>5,000</td>
<td>3,760</td>
<td>-25%</td>
</tr>
<tr>
<td>Ingot</td>
<td>6,180</td>
<td>3,390</td>
<td>-45%</td>
</tr>
<tr>
<td><strong>Consumption:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponge</td>
<td>26,200</td>
<td>17,300</td>
<td>-34%</td>
</tr>
<tr>
<td>Scrap</td>
<td>17,000</td>
<td>11,600</td>
<td>-32%</td>
</tr>
<tr>
<td>Ingot</td>
<td>30,900</td>
<td>18,400</td>
<td>-40%</td>
</tr>
<tr>
<td><strong>Shipments:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castings</td>
<td>704</td>
<td>389</td>
<td>-45%</td>
</tr>
<tr>
<td>Mill products (net shipments):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forging and extrusion billet</td>
<td>11,000</td>
<td>6,020</td>
<td>-45%</td>
</tr>
<tr>
<td>Plate, sheet, strip</td>
<td>6,600</td>
<td>5,960</td>
<td>-10%</td>
</tr>
<tr>
<td>Rod, bar, fastener stock, wire</td>
<td>4,560</td>
<td>3,220</td>
<td>-29%</td>
</tr>
<tr>
<td>Other 4/</td>
<td>838</td>
<td>1,050</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>23,000</td>
<td>16,200</td>
<td>-30%</td>
</tr>
<tr>
<td>Receipts, scrap</td>
<td>22,600</td>
<td>19,300</td>
<td>-15%</td>
</tr>
</tbody>
</table>

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

W Withheld to avoid disclosing company proprietary data.
Titanium Achievement Award Nominations

The Board of Directors of the International Titanium Association (ITA) has created the Titanium Achievement Award to recognize exceptional contributions to the advancement of titanium applications and technology. Each nominee must have demonstrated outstanding achievement in his/her field and this achievement must be recognizable as benefiting the titanium industry at large.

The Titanium Achievement Awards are intended to be presented each year at the ITA Conference and Annual Meeting. More than one award may be granted in each year, at the discretion of the Board of Directors.

*The awards will be governed by the following criteria:*  

1. Nominations may only be proposed by members in good standing of the ITA.  
2. A member may make multiple nominations.  
3. No sitting member of the Board or of the Awards Committee is eligible for consideration.  
4. All nominations received will be considered “active” for three years.  
5. Posthumous nominations will be accepted.  
6. All nominations must be handled with strict confidentiality.  
7. The winners (except posthumous) must be present at the ITA Annual Meeting to receive the award.  
8. Nominations may be submitted in writing or electronically, but will only be accepted by use of the proper form.

Nominations may be submitted to any member of the Board of Directors, to any member of the Awards Committee, or to the ITA headquarters office.

**PLEASE NOTE:** This is not a ballot! The award(s) will be awarded based on the exceptional accomplishments of a nominee and not on the number of recommendations received for any one person. If, at the sole discretion of the Awards Committee and with the concurrence of the Board of Directors, an award is to be made, the presentation will be at the Annual Meeting of the Members in Monterey, California.

### I WISH TO NOMINATE:

Nominee:__________________________  
Affiliation:__________________________  
Position:______________________________  
Address:______________________________  
Telephone:______________________________  
Fax:______________________________  
E-mail Address:______________________________  

According to one or more of the following criteria (check those applicable):

- □ Who, in the past year or in recent years, has rendered significant service to the titanium industry or has acted as a spokesperson for the industry on the national or international scene.
- □ Who, in the past year or recent years, has inaugurated or was instrumental in a technical breakthrough in the mining, refining or fabricating of titanium or titanium products that benefited the entire industry.
- □ Who, in the past year or recent years, has been instrumental in inaugurating an outstanding research or marketing program leading to the expansion of the market for titanium or titanium products.
- □ Who, upon study of outstanding problems confronting the titanium producing and fabricating industries, has developed practical solutions for such problems.
- □ Who, in the past year or in recent years, inaugurated or was instrumental in creating important new and imaginative uses for titanium.

### SUPPORTING DATA:

Using a separate sheet of paper, in 250 words or less, provide a summary of the nominee’s background and qualifications for the award.

ITA Members may submit nomination forms via mail or facsimile to the ITA office at (303) 404-9111. Please include your contact information in the event the Nominating Committee has any questions regarding the potential nominee. Nominations from non-member companies will be disregarded.
Technical Discussion Forum

Just when you thought the ITA web site couldn’t get any better, you discovered the ITA Technical Discussion Forum. The Technical Discussion Forum is an excellent opportunity to educate the general public on titanium. This Forum allows individuals to post questions or seek advice on applications involved with titanium.

The openness and transparency of technical information benefits industry at large, a public forum such as this will only be successful if individuals respond to the posted questions. ITA relies on membership to actively participate in assisting with technical questions.

Recent Inquiries - Do you have a comment?

Technical Discussion Forum
Temperature & Pressure Ratings: High Temperature
At Elevated temperatures, how does titanium compare to 316 stainless steel. I am currently using 20’ of stainless steel and am having problems with bending at higher temperatures. I have heard that titanium is not as strong as stainless at 600 degrees plus? Is this true

Specifications: Bending recommendations for Tang on 88’ Sailboat Mast.
I have been told there is compromise in titanium strength when it is bent and need more information before finalizing this fitting. A flat piece of titanium needs to be bent about 30 degrees. Would this cause considerable weakening?

Specifications:
Can Anyone Reference an Old Mil Spec. Callout?
This old post is similar to what I need. The quoted MIL-T-009046 Class 3 0.020” sheet for patch repairs on aircraft engine firewalls. Just need the cross referenced specification for MRD analysis / failure modes corrosion etc. This is an old aircraft! Thanks in advance.

Cleaning Titanium:
Cleaning & Activation Procedures for Electroplating 24k Neutral Gold on Titanium
I am also interested in the procedure of electroplating gold or platinum on titanium. Please provide info. or literature. Thanks a lot for your help!

Cleaning Titanium: Voids in Grade
We chemically polish titanium, lately in grade 2 We see voids in the metal which open up after the chemical polish. (poor micro yield) Does anyone have information on this subject and means to spec metal with out it?

Cleaning Titanium Marks on China Fixtures
Can anyone tell me what will remove marks from my white china bathroom sink caused by my titanium wedding band hitting it? I have tried all kinds of commercial cleaners and nothing works.

Upcoming Conferences & Exhibitions:

**April 2003**
30-5/3 Society for Biomaterials - 29th Annual Meeting and Exposition, Reno, NV USA

**May 2003**
5-8 Offshore Technology Conference 2003, Houston, TX USA
10-15 Interwire 2003, Atlanta, GA USA
11-15 SAMPE 2003, Long Beach, CA USA
19-24 Achema 2003, Frankfurt, Germany

**June 2003**
9-12 14th AeroMat Conference & Exposition, Dayton, OH USA Visit ITA at booth #106!
15-22 45th Paris Air Show, LeBourget Airport, Paris, France

July 2003
7-11 Thermec’ 2003, Leganes, Madrid, Spain
13-18 10th World Conference on Titanium, Hamburg, Germany

Fundamentals of Titanium: 101
Courses available on the following dates & locations:
June 13, 2003 — Dayton, Ohio
August 15, 2003 — Charlotte, NC
September 8, 2003—Detroit, Michigan
October 15, 2003 — Monterey, California
November 5, 2003—Houston, Texas
For detailed information please contact ITA at (303)404-9400.
ITA Classified Ads

ITA On-line Classified Ads

ITA members rely on the ITA website for the latest news & upcoming events. The website reaches more qualified personnel for titanium related operations.

Advertise:
Equipment, Materials,
Products,
or Business Opportunities.

The Classified’s section of the ITA Web Site is located at www.titanium.org. Simply click on ITA E-News & Classified’s icon from the Home Page. When you submit a classified ad, ITA will proof your advertisement, process your payment, and post it to the website within 2-3 business days. ITA is not liable for confidentiality in classified advertising at any time and reserves the right to reject any advertising not in compliance with ITA standards.

This is a free service to ITA Members.

As of April 1, 2003 ITA will no longer post classified ads from Non-member companies.

Business Opportunity:

Sales Representative - Santa Fe Springs, CA
Name of Your Company: Titanium Industries, Inc EOE.
Contact Name: B. Paddock, info@titanium.com
Titanium Industries, Inc., the largest independent titanium distribution company in North America, is seeking an aggressive Sales Representative for our Santa Fe Springs, CA Service Center. The ideal candidate should have a college degree & several years of successful metal sales or related experience. Responsibilities include 50% inside sales and service and 50% of time making efficient, cost-effective sales calls on major existing and high potential accounts, forecasting and profitably selling the Company's products and services. Salary commensurate with experience plus a full benefits package. E-mail resume with salary requirements to the attention of B. Paddock at info@titanium.com. No phone calls please. Visit our website at www.titanium.com.

Materials Wanted:

Turn Your Stocks Into Cash!
Name of Company: Surplus Stock Market Ltd.
Contact Name: Bernd E Klein, info@surplus-stockmarket.com
Your surplus stock/excess inventory of titanium products, as well as machinery, are best & quickly sold through us. Mail a list of the products you want to sell (with as much as possible information reg. location, quality, size, quantity etc.-with certs or without) to info@surplus-stockmarket.com No fees charged. Free registration. Our associates have more than 30 years of experience in selling/marketing titanium mill products as well as other mill products, including an experienced network of agents worldwide. Have a look at www.surplus-stockmarket.com & see what we can do for you. Turn your stocks into cash!

Products For Sale:

Natural Titanium Not Treated.
Name of Company: Rohenes, Inc.
Contact Name: Frank Rohenes, info@rohenes.com
Have available 5,000 MT per month Ilmenite Titaniferous – Not treated (Natural Stage Black Sand) Minimum Titanium 45%. Specs & samples available.

Equipment For Sale:

Titanium Casting Furnaces For Sale
Name of Your Company: Lectrotherm Inc
Contact Name: mikepinney@lectrotherm.com
Description: Have three cold wall induction crucible melting & precision casting systems available on an as-is or refurbished basis. The systems were originally designed to melt and centrifugally cast 25lbs of titanium and titanium alloys. The furnace systems can also be adapted to zirconium and other reactive alloys. The equipment is in very good condition and was originally manufactured by ALD Vacuum Technologies in 1996/97. To receive a full set of specifications, contact 800/633-3584.

Room Reservation Reminder...
The discounted room block rates for the conference are now available at the Doubletree Hotel. To book your reservation contact: 831-649-4511. Book early to receive the discounted room rate of $179. Remember to tell them you are with the International Titanium Association room block! PLEASE NOTE: Room block rates are valid until either the room block is sold out or before September 26, 2003.
Current Membership Includes the Following Companies

Affinity International, LLC
Allegheny Technologies Incorporated
   Allegheny Ludlum
   Allegheny Rodney
   Allvac
   Titanium International Europe
   Wah Chang
AstroCosmos Metallurgical
BIAM / General Titanium Incorporated
BIBUS Metals AG
Body Cote Rancho Dominguez
Coastcast Corporation
CONSARC Corporation
Corrosion Materials
Deutsche Titan GmbH
Dynamet Incorporated
Dynamet Technology Incorporated
Dynamic Machine Works Incorporated
Excelco Developments Incorporated
F.W. Hempel & Co.
FAE S.A. Fabricación de aleaciones especiales
Fort Wayne Metals Research Products Corp.
GiE Metalle & Materialien GmbH
GIB Resources Incorporated
Grandis Metals
GTT Ginatta Tecnologie Titanio
Harvey Titanium Limited/Metals Aerospace International
Hi Tech Alloys
Howmet Corporation
Hyundai Titanium Company, Ltd.
International Titanium Powder
Itochu Non-Ferrous Materials Company, Ltd.
JSC "FIKO"
Keywell LLC Vac Air Division
K.P.C. Corporation
Lectrotherm
Luxembourg Company of Metals and Alloys S.A.
Monico Alloys Incorporated
Naval Surface Warfare Center
NF & M International Incorporated
North American Alloys
Northwest Institute for Nonferrous Metal Research
Pacific Cast Technologies, Inc.

Perryman Company
Plymouth Extruded Shapes
Plymouth Tube Company
President Company, Ltd.
President Titanium Incorporated
Reading Alloys Incorporated
Renton Coil Spring Company
Retech Systems LLC
Rixh Ti-Casting Industrial Co., Ltd.
Rome Metals Inc.
RTI International Metals Inc.
   Galt Alloys Incorporated
Sandinox Comercio
Sandvik Special Metals Corporation
Solar Atmospheres Incorporated
   Solar Atmospheres of Western PA
Specialty Metals Company
Spectore Corporation
Sprene Metals Company, Ltd.
STADCO
Stratcor Performance Materials, Inc.
Strohecker Incorporated
Suisman Titanium Corporation
Sumitomo Corporation of America
Sumitomo Titanium Corporation
Supra Alloys Incorporated
TechSpec Incorporated
Tibrasil Titanio Ltda.
TICO Titanium Incorporated
TIMET
   LOTERIOS S.p.A.
TIODIZE Company, Inc.
   Titania S.p.A.
Titaniuin Engineers Incorporated
Titanium Fabrication Corporation
Titanium Finishing Company
Titanium Industries Incorporated
Titanium Sports Technologies LLC
Toho Titanium Company, Ltd.
Trans World Alloys Company
Tresis International, Inc.
Tricor Industrial Incorporated
Ulbrich Stainless Steels & Special Metals, Inc.
United Alloys Aircraft Metals, Inc.
United Titanium Incorporated
VALTIMET
VSMPO
Vulcanium Metals International
Wellmet International Inc
Western Titanium Incorporated
Xiamen Huaxia International Trading Co. Ltd
ZAK, Inc.

Founded in 1984 the International Titanium Association is a nonprofit networking trade association for the titanium industry. The primary focus of the Association is to promote the continued growth of the industry as well as educate the public on benefits and implementation of using titanium. Current membership includes 96 organizations.