

Titanium Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Electronic Chemicals & Catalysts (Chemicals & Materials)
> ****Source:**** https://www.mordorintelligence.com/industry-reports/titanium-market
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	N/A
Projected Forecast (2031)	N/A
Growth Rate (CAGR)	5.81 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

! [Major players in Titanium industry] (images/chart_2.png)

! [Titanium Market (2025 - 2030)] (images/chart_3.png)

! [Titanium Market: Market Share by Product Type, 2025] (images/chart_4.png)

! [Titanium Market: Market Share by Application, 2025] (images/chart_5.png)

! [Titanium Market CAGR (%), Growth Rate by Region] (images/chart_6.png)

! [Titanium Market - Market Concentration] (images/chart_7.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2020 - 2031 |
Market Volume (2026) | 238.8 kilotons |
Market Volume (2031) | 316.83 kilotons |
Growth Rate (2026 - 2031) | 5.81 % |
Fastest Growing Market | Asia Pacific |
Largest Market | Asia Pacific |
Market Concentration | Medium |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Titanium Market Analysis by Mordor Intelligence The Titanium Market size is expected to grow from 225.68 kilotons in 2025 to 238.8 kilotons in 2026 and is forecast to reach 316.83 kilotons by 2031 at 5.81% CAGR over 2026-2031. Rising defense procurement, electrified mobility, and offshore renewable-energy installations reinforce demand visibility, while continuing investments in production capacity widen the material's addressable opportunity set. Although titanium production is energy intensive, advances in furnace efficiency and sponge recycling temper cost inflation and support margin stability for integrated producers. Aerospace backlogs stabilize after pandemic-era disruptions, medical device approvals for 3-D printed implants accelerate, and environmental regulations tighten corrosion-resistance specifications in chemical processing, all of which sustain multi-year buying cycles. Supply diversification programs in the United States and the Middle East reduce geopolitical dependence on traditional producers and underpin long-term resilience in the titanium market.

Key Report Takeaways* By product category, titanium alloys led with 69.42% revenue share of the titanium market in 2025, while titanium compounds and catalysts are advancing at a 5.95% CAGR through 2031.

* By application, aerospace and defense retained 51.63% of the titanium market share in 2025; the medical segment is projected to grow at a 6.15% CAGR to 2031.

* By geography, Asia-Pacific accounted for 42.55% of the titanium market in 2025, and the region is forecast to expand at a 5.85% CAGR over the same period.

Key Market Trends

Market Trends and Insights Drivers Impact Analysis of Titanium Market* Drivers | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline | Growing aerospace and defense backlog | +1.2% | North America, Europe, Global | Medium term (2-4 years) | Weight-to-strength advantage in e-mobility platforms | +0.8% | Asia-Pacific, North America, Europe | Long term (≥ 4 years) | Surging offshore wind-turbine demand | +0.6% | Europe, Asia-Pacific, North America | Medium term (2-4 years) | Titanium hydride use in solid-state batteries | +0.5% | Asia-Pacific, North America | Long term (≥ 4 years) | Biomedical 3-D printed implant approvals rising | +0.5% | North America, Europe, Global | Short term (≤ 2 years) | Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The titanium market remains moderately fragmented. Technology differentiation is increasingly critical. ATI invested in a dedicated powder-atomization facility that manufactures spherical titanium powders for laser-powder-bed fusion printers, targeting orthopedic implants and space-launch brackets. Strategic moves include multi-year offtake contracts with turbine OEMs that guarantee volume and pricing floors, mitigating raw-material volatility. Producers also pursue sustainability metrics by integrating solar or geothermal power at sponge plants, responding to aerospace primes' Scope 3 emissions reduction targets.

Titanium Industry Leaders* ATI

* Corporation VSMPO-AVISMA

* Timet (Precision Castparts Corp.)

* Toho Titanium Co., Ltd.

* Tronox Holdings Plc

* *Disclaimer: Major Players sorted in no particular order

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Component Component 3 Scope Of The Report Bottom

Global Titanium Market Report ScopeTitanium is a hard, silvery-grey metal that naturally occurs as a compound in various minerals, most notably in ilmenite (FeTiO_3) and rutile (TiO_2). Valued for its low density, high strength, and excellent corrosion resistance, titanium boasts impressive properties. Additionally, its modulus of elasticity is half that of stainless steel, contributing to its durability and shock resistance. These minerals are more commonly found in sand or soil than in hard rock as ilmenite and rutile. Other minerals containing titanium include perovskite, titanite, anatase, and brookite. Major deposits of these titanium minerals are located in China, Australia, Canada, India, Norway, South Africa, Ukraine, and the USA.

The Titanium Market is Segmented by product type, application, and geography. By product type, the market is segmented into Titanium metal, Titanium alloy, Titanium compounds and catalysts, and Others. By application, it is segmented into Aerospace, Industrial, Power Generation, Chemical Processing, Medical, and Other Applications. The report offers market size forecasts for the titanium market in over 27 countries across major regions. For each segment, the market sizing and forecasts have been made on the basis of volume (tons).

By Product TypeTitanium Metal |
Titanium Alloys |
Titanium Compounds and Catalysts |
Others |

Segmentation Accordion Item

By GeographyAsia-Pacific | China |
| Japan |
| India |
| South Korea |
| Thailand |
| Malaysia |
| Indonesia |
| Vietnam |
| Rest of Asia-Pacific |
North America | United States |
| Canada |
| Mexico |
Europe | Germany |
| United Kingdom |
| France |
| Italy |
| Spain |
| Russia |
| Turkey |
| Nordics |
| Rest of Europe |
South America | Brazil |
| Argentina |
| Colombia |
| Rest of South America |
Middle-East and Africa | Saudi Arabia |
| United Arab Emirates |

- | Qatar |
- | Egypt |
- | Nigeria |
- | South Africa |
- | Rest of Middle-East and Africa |

Frequently Asked Questions

What is the projected volume for global titanium demand by 2031?

Forecasts point to 316.83 kilo tons by 2031, up from 238.8 kilo tons in 2026.

Which application contributes most to titanium consumption today?

Aerospace and defense account for 51.63% of global demand, reflecting jet-engine and airframe requirements.

Why is titanium pivotal in medical implants?

Its biocompatibility and ability to bond with bone enable durable, patient-specific orthopedic and dental devices.

How concentrated is titanium sponge production?

China and Japan jointly supply around 60% of global sponge, with the United States importing over 95% of its needs.

What is driving titanium adoption in electric vehicles?

The metal offers superior strength-to-weight ratios that offset battery mass and withstand high-thermal loads in next-gen powertrains.

How are producers mitigating ESG concerns in titanium refining?

Investments in renewable energy integration and closed-loop chloride management lower carbon footprints and waste outputs.