

Aerospace Titanium Market CAGR to be at 6.9% from 2025 to 2029 | \$4.22 Billion Industry Revenue by 2029

*The Business Research Company's
Aerospace Titanium Global Market Report
2025 – Market Size, Trends, And Global
Forecast 2025-2034*

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/EINPresswire.com/ -- What Is The
Projected Market Size & Growth Rate
Of The Aerospace Titanium Market?

The market size of aerospace titanium has experienced significant expansion in the past few years. Projected growth suggests an increase from \$3 billion in 2024 to about \$3.22 billion in 2025, with a CAGR of 7.3%. Factors contributing to this growth in the previous period include the demand for military aircraft, advancements in space exploration, the rise in air traffic, environmental concerns, and investment in research and development.



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The size of the aerospace titanium market is projected to experience significant expansion in the coming years, with a forecasted growth to \$4.22 billion in 2029 at a compound annual growth rate (CAGR) of 7.0%. The predicted growth can be linked to the emergence of urban air mobility (UAM), the implementation of digital technologies, commitment to sustainable aviation, intelligent manufacturing, and worldwide defense modernization.

Key trends for this period foresee customization, the integration of nanotechnology, the proliferation of unmanned aerial vehicles (UAVs), amplified outsourcing, and the increased application of data analytics.

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What Is The Crucial Factor Driving The Global Aerospace Titanium Market?

The growth of the aerospace titanium market is anticipated to be stimulated by increased military expenditures. This refers to the funds allocated by a government for equipping its military with weapons, materiel, and personnel. Aerospace titanium, known for its high strength-to-density ratio, superior corrosion resistance, and capability to withstand elevated temperatures without distortion, finds wide usage in airplanes, armor plating, naval vessels, spaceships, and guided projectiles. For instance, as pointed out by the Stockholm International Peace Research Institute (SIPRI), a non-profit organization from Sweden, the global military expenditure in 2023 touched \$2.443 trillion, marking a 6.8% rise in actual terms in comparison to the previous year, 2022. Thus, the surge in military expenditure is acting as a catalyst for the growth of the aerospace titanium market.

Who Are The Emerging Players In The Aerospace Titanium Market?

Major players in the Aerospace Titanium Global Market Report 2025 include:

- Aperam Ltd.
- GE Aviation
- Precision Castparts Corporation
- Allegheny Technologies Incorporated
- GKN Aerospace Services Limited
- Carpenter Technology Corporation
- VSMPO-AVISMA Corporation
- Montana Aerospace AG
- Baoji Titanium Industry Co. Ltd.
- Kobelco Group Ltd.

What Are The Key Trends Shaping The [Aerospace Titanium Industry](#)?

Key participants in the aerospace titanium market, like major corporations, are prioritizing the creation of inventive items such as high-strength aluminum and titanium alloys. These products are aimed at boosting performance, minimizing weight, and improving aircraft's fuel efficiency. Designed to offer superior strength-to-weight ratios, high-strength aluminum and titanium alloys are sophisticated materials suited for aerospace usage. These alloys display improved endurance, resistance to corrosion, and the capacity to withstand harsh conditions. For example, Xi, Bright Laser Technologies Co., Ltd., a manufacturing organization based in China, introduced two sophisticated materials in July 2024: BLT-ALAM500, a high-strength aluminum alloy, and BLT-Ti65, a high-temperature titanium alloy. These are geared to enhance performance in challenging applications, especially those in the aerospace sector. BLT-ALAM500, intended for additive manufacturing, boasts tensile strengths between 530 and 550 MPa and outstanding fracture toughness. This makes it an ideal choice for aerospace and automotive applications, while its optimized process trims manufacturing costs by as much as 50%, facilitating the creation of lightweight, intricate components. BLT-Ti65, a high-temp titanium alloy, can retain its strength and stability up to 650 °C, thus making it an excellent fit for the aerospace and chemical sectors.

What Segments Are Covered In The Aerospace Titanium Market Report?

The aerospace titanium market covered in this report is segmented –

- 1) By Type: TC4, TC6, TC16, Ti555, Other Types
- 2) By Alloy Type: Alpha, Alpha+Beta, Beta
- 3) By Aircraft Type: Commercial Aircraft, Regional Aircraft, General Aviation, Helicopter, Military Aircraft
- 4) By Application: Structural Airframes, Engines, Other Applications

Subsegments:

- 1) By C4 (Titanium Alloy Grade 5): Alpha-Beta Alloy, Used In Critical Structural Applications
- 2) By TC6 (Titanium Alloy Grade 6): High Strength And Corrosion Resistance, Suitable For High-Temperature Applications
- 3) By TC16 (Titanium Alloy Grade 16): Alpha-Beta Alloy, Enhanced Weldability And Fatigue Resistance
- 4) By Ti555 (Titanium Alloy Grade 555): High Strength And Low Density, Used In Aerospace Components And Structures
- 5) By Other Types: Beta Titanium Alloys, Commercially Pure Titanium (CPT), Specialty Titanium Alloys

View the full aerospace titanium market report:

<https://www.thebusinessresearchcompany.com/report/aerospace-titanium-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Aerospace Titanium Market?

In the year 2024, North America led the Aerospace Titanium Global Market Report in terms of the largest region. It's anticipated growth status will also be featured in the report. The regions encompassed by the report include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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