SCOTTS INTERNATIONAL

Aerospace Materials Market by Type (Aluminum Alloys, Steel Alloys, Titanium Alloys, Super Alloys, Composite Materials), Aircraft Type (Commercial Aircraft, Business & General Aviation, Helicopters), and Region - Global Forecast to 2030

Market Report | 2025-09-24 | 317 pages | MarketsandMarkets

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Report description:

The aerospace materials market is estimated to be valued at USD 43.0 billion in 2025 and reach USD 62.3 billion by 2030, at a CAGR of 7.7% between 2025 and 2030. The aluminum segment accounts for the largest share of the aerospace materials market due to its unique balance of cost-effectiveness, strength-to-weight performance, and wide applicability across commercial, defense, and business aircraft. Aluminum alloys are extensively used in airframes, fuselage structures, wings, ribs, and fasteners, giving them far higher volume demand compared to titanium or composites. Their well-established supply chain, recyclability, ease of repair, and long-standing regulatory certification further reinforce aluminum's dominance, making it the material of choice for both OEMs and MROs. aluminum's scale advantage ensures it captures a significant portion of this growth, supported by rising aircraft production, fleet modernization, aftermarket demand, and advancements in high-strength aluminum alloys that continue to enhance performance and value.

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''Business and general aviation segment accounts for the second-largest share of the aerospace materials market.''

Business and general aviation segment includes a wide fleet of private jets, charter aircraft, and turboprops, which collectively generate substantial demand for high-value materials. These aircraft typically require premium-quality materials such as advanced aluminum alloys, titanium, and composites to deliver superior performance, durability, and aesthetics tailored to customer expectations of safety, comfort, and efficiency. The segment benefits from steady demand driven by rising high-net-worth individual (HNWI) ownership, corporate jet usage, and growth in air taxi and charter services, especially in emerging markets. Furthermore, frequent customization and aftermarket retrofitting activities in business jets lead to higher per-aircraft material consumption in value terms compared to commercial fleets. Combined with increasing focus on lightweight structures for fuel efficiency and luxury interior materials for passenger experience, business and general aviation continues to hold the second-largest share of the overall aerospace materials market in terms of value.

"Europe is projected to remain the largest market for aerospace composites during the forecast period."
The growing demand for aerospace materials in Europe is driven by several key factors, including increased investment in high-performance material R&D and rising government and private spending on space exploration initiatives. Additionally, the expansion of the regional tourism and air travel industry is prompting higher production of commercial aircraft, further fueling composite demand. Europe also benefits from a strong industrial base, with the presence of leading aerospace manufacturers such as Airbus, Rolls-Royce, and Dassault Aviation, alongside a robust network of research institutions and innovation centers focused on advanced composite technologies.
Collaborative programs like Clean Sky and Horizon Europe are further accelerating the development of next-generation, lightweight, and sustainable aerospace materials. This combination of strategic investment, industrial capability, and innovation infrastructure continues to position Europe as a leading hub for aerospace materials growth.
This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:
- By Company Type - Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%
- By Designation - C Level - 50%, Director Level - 30%, and Others - 20%
- By Region - North America - 15%, Europe - 50%, Asia Pacific - 20%, Middle East & Africa (MEA) -5%, Latin America - 10%

The report provides a comprehensive analysis of company profiles:
Prominent companies include Syensqo (Belgium), Toray Industries, Inc. (Japan), Hexcel Corporation (US), Teijin Limited (Japan), Huntsman International LLC (US), VSMPO-AVISMA Corporation (Russia), SGL Carbon (Germany), Mitsubishi Chemical Advanced Materials (Japan), DuPont (US), SABIC (Saudi Arabia), Swiss Steel Group (Switzerland), ATI (US), Alcoa Corporation (US), China Ansteel Group Corporation Limited (China), and Precision Castparts Corp. (PCC) (US).

Research Coverage

This research report categorizes the Aerospace materials market , By Type (Aluminum Alloys, Steel Alloys, Titanium Alloys, Super Alloys, Composite Materials and Others), Aircraft Type (Commercial Aircraft, Business & General Aviation, Helicopters, And Others), Applications (Interior, Exterior), and Region (North America, Europe, Asia Pacific, Middle East & Africa, And South America). The scope of the report includes detailed information about the major factors influencing the growth of the aerospace materials market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers & acquisitions, and recent developments in the aerospace materials market are all covered. This report includes a competitive analysis of upcoming startups in the aerospace materials market ecosystem.
Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall aerospace materials market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.
The report provides insights on the following pointers:

- Analysis of key drivers (Increasing adoption of lightweight alloys (aluminum, titanium) and composites to enhance aircraft performance, fuel efficiency, and reduce emissions. and Rising production and modernization of commercial, business, and defense aircraft, supported by fleet expansion and military spending), restraints (Volatile raw material prices (titanium, aluminum, and specialty alloys) impacting production costs and profitability and Stringent certification and regulatory requirements slowing down material adoption and increasing R&D costs), opportunities (Growing demand for next-generation, fuel-efficient aircraft creating scope for advanced lightweight materials, and Increasing investment in sustainable and recyclable aerospace materials to address environmental concerns and regulatory pressures), and challenges (Supply chain vulnerabilities for critical raw materials, especially titanium and rare alloys, due to geopolitical risks, and High manufacturing complexity and scalability issues, particularly in balancing advanced material performance with cost-effectiveness) influencing the growth of the aerospace materials market

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the aerospace materials market

- Market Development: Comprehensive information about lucrative markets - the report analyses the aerospace materials market across varied regions.

- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the aerospace materials market

- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players such as Syensqo (Belgium), Toray Industries, Inc. (Japan), Hexcel Corporation (US), Teijin Limited (Japan), Huntsman International LLC (US), VSMPO-AVISMA Corporation (Russia), SGL Carbon (Germany), Mitsubishi Chemical Advanced Materials (Japan), DuPont (US), SABIC (Saudi Arabia), Swiss Steel Group (Switzerland), ATI (US), Alcoa Corporation (US), China Ansteel Group Corporation Limited (China), and Precision Castparts Corp. (PCC) (US), among others, in the aerospace materials market

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