

Global Markets for Advanced Aerospace Materials

Market Research Report | 2025-03-05 | 189 pages | BCC Research

AVAILABLE LICENSES:

- Single User License \$4650.00
- 2-5 Users License \$5580.00
- Site License \$6696.00
- Enterprise License \$8035.00

Report description:

Description

Report Scope

This report provides a thorough qualitative and quantitative assessment of the global market for advanced aerospace materials. It considers 2023 as the base year, and provides revenue forecasts for 2024 to 2029 (\$ millions). The report analyzes the market based on type, application, end user and region. Each region is further sub-segmented into key countries. Segmental analysis is broken into:

- Type: Advanced aluminum alloys, advanced composites, titanium alloys, superalloys, advanced steel alloys, ceramic-matrix composites, and advanced adhesives.
- Application: Commercial aircraft, military aircraft, general aviation, and helicopters.
- Commercial aircraft: Passenger aircraft, transport aircraft, and space aircraft.
- End user: Private sector and public sector.
- Region: North America, Europe, Asia-Pacific, and Rest of the World (ROW).

Report Includes

- 113 data tables and 51 additional tables
- Analyses of global market trends for advanced aerospace materials, with market revenue data for 2023, estimates for 2024, forecast for 2025 and 2027, and projected CAGRs through 2029
- Estimates of the size and growth forecasts of the global market, and a corresponding market share analysis by material type, aircraft type, ownership type, and region/country
- Facts and figures pertaining to current trends, market dynamics, technological advances, regulations and standards, and the impact of various macroeconomic factors
- Insights derived from the Porter's Five Forces model, as well as global value/supply chain and PESTLE analyses, and case studies
- Evaluation of recent patent activity and key granted and published patents
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott-international.com

www.scott-international.com

practices of leading companies

- Review of emerging trends and technologies, and new developments in advanced aerospace materials
- Analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a venture funding outlook
- Company profiles of major players within the industry, including Solvay, DuPont, Ametek Inc., and Constellium

Executive Summary

Summary:

The global market for advanced aerospace materials is estimated to increase from \$29.2 billion in 2024 to reach \$42.9 billion by 2029, at a compound annual growth rate (CAGR) of 8.0% from 2024 through 2029.

The aerospace and space exploration industry has evolved, not just in terms of technological advances, but in the development of innovative materials. Major advances in materials science, mainly within composite technology, have enabled the development of promising novel materials for aerospace engineering. These materials also play a key role in augmenting sustainability by reducing fuel consumption and improving safety and performance. Nanomaterials, high-performance metal alloys, composites, and artificially engineered materials have transformed aerospace engineering.

The global market for advanced aerospace materials will enjoy strong growth in the coming years due to an increase in air passenger traffic, rising demand for military aircraft, and favorable government support. Moreover, a growing number of projects and investments in space missions and satellite launches are also expected to fuel the overall demand for these materials.

Materials such as composites, which are lightweight yet high-performance, are attracting attention from aircraft makers due to their role in augmenting sustainability by lowering fuel consumption and carbon emissions. Metal alloys such as advanced aluminum, titanium, superalloys, and steel are also expected to observe a positive growth trend.

The market leader by region is North America, where demand in North America is led by vast aircraft production capacity in the U.S. and favorable government initiatives. Europe is a close second.

Table of Contents:

Table of Contents

Chapter 1 Executive Summary

Market Outlook

Scope of Report

Market Summary

Chapter 2 Market Overview

Definition

Industry Scenario

Role of Advanced Materials

Criteria for Selecting Materials

PESTLE Analysis

Supply Chain Analysis

Raw Material Suppliers

Advanced Material Producers

Manufacturers and Assemblers of Parts and Components

Original Equipment Manufacturers

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

End Users
Chapter 3 Market Dynamics
Market Dynamics
Market Drivers
Surge in Global Air Passenger Traffic
Rising Government Support
More Demand for Aircraft and Related Component Replacement
Expanding Use of Advanced Materials in Military Aircraft
Increased Space Missions and Satellite Launches
Market Challenges
Sensitivity to Cyclicalities of the Aerospace Sector
Strict Regulatory Environment
Market Restraint
Material Drawbacks
Market Opportunities
Emergence of Sustainable Organic Materials
Chapter 4 Emerging Technologies and Developments
Overview
Materials and Technological Trends
Recent Material Innovations
Patent Analysis
Chapter 5 Market Segmentation Analysis
Segmentation Breakdown
Market Breakdown by Type
Advanced Aluminum Alloys
Advanced Composites
Titanium Alloys
Superalloys
Advanced Steel Alloys
Ceramic-matrix Composites
Advanced Adhesives
Market Breakdown by Application
Commercial Aircraft
Military Aircraft
General Aviation
Helicopters
Market Breakdown by End User
Private Sector
Public Sector
Geographic Breakdown
Market Analysis by Region
North America
Europe
Asia-Pacific
Rest of the World (RoW)
Chapter 6 Competitive Intelligence
Competitive Scenario

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Leading Companies
Strategic Initiatives
Chapter 7 Sustainability in Advanced Aerospace Materials: An ESG Perspective
ESG in the Aerospace Materials Industry
Sustainability Trends in the Market
ESG Issues
ESG Practices in the Market
Environmental Performance
Social Performance
Governance Performance
Current Status of ESG in the Market
Conclusion
Chapter 8 Appendix
Methodology
Key Findings/Takeaways
Information Sources
Abbreviations
References
Company Profiles
3M
AMETEK INC.
ARCONIC
AUBERT & DUVAL
BASF
CONSTELLIUM
CRS HOLDINGS LLC.
DONCASTERS GROUP
DUPONT
GFE GESELLSCHAFT FUR ELEKTROMETALLURGIE MBH
HAYNES INTERNATIONAL
HEXCEL CORP.
SOLVAY
TEIJIN LTD.
TORAY INDUSTRIES INC.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Markets for Advanced Aerospace Materials

Market Research Report | 2025-03-05 | 189 pages | BCC Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4650.00
	2-5 Users License	\$5580.00
	Site License	\$6696.00
	Enterprise License	\$8035.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-05"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

