Advanced Composites Market Trends Highlight Growth Opportunities Driven by Aerospace and Aircraft

Growth supported by expanding aerospace, automotive, and manufacturing industries in China, India, and Japan

Advanced composites Market, by Resin Type

DELAWARE, DE, UNITED STATES, November 24, 2025 /EINPresswire.com/ -- The global advanced composites market is witnessing robust growth driven by increasing adoption of carbon fiber and S-glass fiber composites in the aerospace & defense sector, rising demand across various end-use industries, and rapid industrialization in developing economies.

According to a report published by Allied Market Research, titled “Advanced Composites Market by Product Type, Resin Type, and End-Use Industry: Global Opportunity Analysis and Industry Forecast, 2021–2031”, the global market generated $34.0 billion in 2021 and is expected to reach $88.7 billion by 2031, growing at a CAGR of 10.2% from 2022 to 2031.

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https://www.alliedmarketresearch.com/request-sample/A11557

Market Drivers:

- Growing adoption in aerospace & defense: Carbon fiber and S-glass fiber composites are increasingly used in aircraft structures due to their excellent strength-to-weight ratio, corrosion resistance, and durability.

- Rising demand across industries: Automotive, wind energy, electronics, medical, and marine sectors are widely integrating carbon fiber composites for performance enhancement and lightweighting.

- Industrial expansion in emerging economies: Countries across Asia-Pacific and Latin America are investing heavily in infrastructure and industrial manufacturing, driving demand for advanced materials.

- Challenges: High production cost and availability of substitutes remain barriers to widespread adoption.

- Opportunities: New technologies in wind energy and rising global vehicle production offer significant future growth potential.

Segmental Highlights:-

1. By Product Type

Carbon Fiber – Leading & Fastest-Growing Segment

- Held three-fifths of the market share in 2021
- Expected to maintain dominance through 2031
- Registered the highest CAGR of 10.3%
- Widely used in aerospace due to exceptional durability, heat resistance, and lightweight properties

2. By Resin Type

Thermoplastic Resins – Largest & Fastest-Growing Segment

- Accounted for nearly three-fifths of market revenue in 2021
- Projected to retain the lead with a CAGR of 10.3%
- Popular due to strong thermal resistance, dimensional stability, and electrical insulation capabilities

3. By End-Use Industry

Aerospace & Defense – Dominant and Highest CAGR

- Contributed three-fifths of total market revenue in 2021
- Expected to maintain leadership with CAGR of 10.5%
- Growth driven by extensive use in next-generation military and commercial aircraft

4. Regional Analysis:-

Asia-Pacific – Largest Market

- Held two-fifths of global revenue in 2021
- Growth supported by expanding aerospace, automotive, and manufacturing industries in China, India, and Japan

North America – Fastest-Growing Region

- Expected CAGR: 10.3% (2022–2031)
- Strong demand from automotive, aerospace, and wind energy sectors

Key Industry Players:

- Hexcel Corporation
- Owens Corning
- Huntsman International LLC
- ST Advanced Composites
- Solvay
- Momentive
- DuPont
- SGL Carbon
- Toray Industries, Inc.
- TEIJIN LIMITED

These players focus on product innovation, strategic collaborations, capacity expansion, and technological advancements to strengthen their market presence.

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https://www.alliedmarketresearch.com/advanced-composites-market/purchase-options

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