

**Composites Materials in Tooling Market By Resin Type (Epoxy, Polyurethane, Others) , By Material Type (Metal Alloys, Steel, Silicon, Rubber, Fiberglass, Others) By End-Use Industry (Aerospace, Automotive, Renewable Energy, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

Market Report | 2024-11-01 | 340 pages | Allied Market Research

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**Report description:**

Composites Materials in Tooling Market

The composites materials in tooling market was valued at \$552.5 million in 2023 and is projected to reach \$935.7 million by 2033, growing at a CAGR of 5.5% from 2024 to 2033.

Composite materials are elements with exceptional properties formed by the combination of two or more components with distinguished characteristics. Composites are used to improve the performance and reduce the costs of tooling applications via their unique attributes such as high strength-to-weight ratio, dimensional stability, corrosion & thermal resistance, and manufacturing flexibility. The common types of composite materials used in tooling include glass fiber-reinforced polymer, metal matrix composites, carbon fiber-reinforced polymer, and ceramic matrix composites.

Increase in requirement for lightweight materials in the automotive and aerospace industries is a significant driver of the composites materials in tooling market as the materials offer remarkable strength with their lightweight property. In addition, the long-term cost-effectiveness offered by composite materials due to their durability and resistance to wear & tear fuels their demand, which propels the market growth. A significant trend gaining prominence in the market in recent times is the utilization of additive manufacturing for the development of composites. This manufacturing technique offers exceptional control over the composition and geometry of polymers, facilitating the development of intricate designs for tooling applications.

However, the inability of composite materials to perform in extreme situations such as high-impact stresses or sharp loading conditions limits their usage and hampers the development of the market. Moreover, lack of efficient workforce to handle the composite tooling restrains the market growth notably. On the contrary, as several manufacturing industries are striving to adopt sustainability in their workflow, the composites materials in tooling market is anticipated to witness lucrative opportunities.

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According to the Environmental Protection Agency, industrial activities contribute 24% of global carbon emissions annually. Composites materials increase the lifespan & energy efficiency of tooling by enhancing the heat resistance and facilitating efficient cooling of machinery. This results in reduced wastage and low emissions, indicating a promising future for the composites materials in tooling market.□

#### Segment Review□

The composites materials in tooling market is segmented into resin type, material type, end-use industry, and region. On the basis of resin type, the market is divided into epoxy, polyurethane, and others. According to material type, it is classified into metal alloys, steel, silicon, rubber, fiberglass, and others. By end-use industry, it is categorized into aerospace, automotive, renewable energy, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.□

#### Key Findings□

On the basis of resin type, the epoxy segment held the highest market share in 2023.□

According to material type, the fiberglass segment acquired a notable stake in the market in 2023.□

By end-use industry, the aerospace segment dominated the market in 2023.□

Region wise, North America was the highest revenue generator in 2023.□

#### Competition Analysis□

The major players in the global composites materials in tooling market include Hexcel Corporation, Toray Industries, Inc., Solvay S.A., Huntsman Corporation, Mitsubishi Chemical Holdings Corporation, Owens Corning, Teijin Limited, Barrday Inc., SABIC, and Jushi Co., Ltd. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.□

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- Technology Trend Analysis
- Distributor margin Analysis
- Go To Market Strategy
- New Product Development/ Product Matrix of Key Players
- Pain Point Analysis
- Regulatory Guidelines

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- Additional company profiles with specific to client's interest
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- Brands Share Analysis
- Expanded list for Company Profiles
- Historic market data
- Import Export Analysis/Data
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- List of customers/consumers/raw material suppliers- value chain analysis
- Market share analysis of players at global/region/country level
- Product Consumption Analysis
- SWOT Analysis

#### Key Market Segments

##### By Resin Type

- Epoxy
- Polyurethane
- Others

##### By Material Type

- Metal Alloys
- Steel
- Silicon
- Rubber
- Fiberglass
- Others

##### By End-Use Industry

- Aerospace
- Automotive
- Renewable Energy
- Others

##### By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- France
- Germany
- Italy
- Spain
- UK
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific

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- LAMEA
- Brazil
- South Africa
- Saudi Arabia
- Rest of LAMEA
- Key Market Players
- Hexcel Corporation
- Toray Industries, Inc
- Solvay S.A.
- Huntsman Corporation
- Mitsubishi Chemical Holdings Corporation
- Owens Corning
- Teijin Limited
- Barrday Inc.
- SABIC
- Jushi Co., Ltd

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