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Global Thermoset Composites Market Size Study & Forecast, by Resin System, Reinforcement Type, Application, Manufacturing Process, and Regional Forecasts 2025–2035

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Abstracts

The Global Thermoset Composites Market is valued at approximately USD 43.83 billion in 2024 and is projected to expand at a compelling CAGR of 8.49% over the forecast period from 2025 to 2035. These materials, known for their structural rigidity, high chemical resistance, and remarkable durability, are redefining performance benchmarks across industries. From lightweight aerospace components to corrosion-resistant automotive panels and wind turbine blades, thermoset composites are being adopted at an accelerating pace due to their enhanced mechanical properties and operational efficiency. Their ability to retain shape under extreme stress and high temperatures is prompting manufacturers to replace traditional metals with thermoset matrices, such as epoxy, polyester, and phenolic resins.

This remarkable upsurge in demand is closely tied to the exponential growth of end-user industries. For instance, the aerospace and automotive sectors are under intensifying pressure to reduce emissions and boost fuel efficiency, driving demand for lighter materials without compromising structural integrity. Thermoset composites, often reinforced with carbon or aramid fibers, emerge as a transformative solution. Moreover, increasing investments in renewable energy projects—particularly wind energy infrastructure—have catalyzed the uptake of thermoset materials for large-scale applications such as turbine blades. Technological breakthroughs in manufacturing processes like vacuum infusion and resin transfer molding (RTM) are enabling faster, cleaner, and cost-efficient production—further enhancing market competitiveness.

Regionally, North America currently leads the global thermoset composites market,

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primarily due to the mature aerospace and defense ecosystem in the U.S., coupled with a well-established wind energy sector and automotive production base. Europe is following closely, bolstered by robust sustainability goals and stringent regulations on vehicle emissions, which are encouraging the replacement of metal parts with thermoset composite alternatives. However, the Asia Pacific region is poised to be the most dynamic growth hub during the forecast period. Countries such as China, India, and Japan are investing heavily in high-speed rail, infrastructure modernization, renewable energy installations, and next-generation automotive innovations—creating a thriving ecosystem for composite materials. Additionally, low labor costs and rapid industrialization across Southeast Asia are further contributing to manufacturing expansion in this sector.

Major market players included in this report are:

BASF SE

Hexcel Corporation

Hexion Inc.

Owens Corning

Toray Industries Inc.

Huntsman Corporation

SGL Carbon

Mitsubishi Chemical Group Corporation

Ashland Global Holdings Inc.

Gurit Holding AG

UPM-Kymmene Corporation

AOC LLC

Teijin Limited

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Plasan Carbon Composites

Covestro AG

Global Thermoset Composites Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Resin System:

Epoxy Resins

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- Polyester Resins
- Phenolic Resins
- Silicone Resins
- Vinyl Ester Resins

By Reinforcement Type:

- Glass Fibers
- Carbon Fibers
- Aramid Fibers
- Natural Fibers
- Hybrid Reinforcements

By Application:

- Aerospace & Defense
- Automotive & Transportation
- Construction
- Electronics
- Industrial Machinery
- Oil & Gas
- Wind Energy

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By Manufacturing Process:

- Hand Lay-up
- Spray Lay-up
- Resin Transfer Molding (RTM)
- Vacuum Infusion
- Pultrusion
- Compression Molding

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

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Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.

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Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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