

Global Reinforcement Materials Market Size study & Forecast, by Material (Glass Fiber, Carbon Fiber, Aramid Fiber, Basalt Fiber, Natural Fiber, Steel Rebar), by Form (Multi-End and Single-End Roving, Mats and Veils, Woven, Stitched, Others), by Application (Composite, Concrete, Others), by End Use (Building & Construction, Automotive, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Reinforcement Materials Market is valued at approximately USD 20.6 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 8.10% during the forecast period 2023-2030. Within materials science, reinforcement plays a crucial role in composite materials, significantly enhancing their mechanical properties. Its principal purpose is to increase the strength and stiffness of the composite, particularly in a unidirectional manner, as the reinforcement effectively carries the load along the fiber's length. This improvement is pivotal in enhancing the overall performance and durability of the composite, aligning with its intended application and structural demands. As construction projects increase, there is a rising demand for materials that enhance structural integrity and durability, such as Reinforcement Materials. This demand is further fueled by advanced construction techniques and sustainability initiatives, positioning the Reinforcement Materials Market for considerable growth. Industries are utilizing fiber composites in automotive, aerospace, renewable energy, and sports equipment, increasing demand for Reinforcement Materials to enhance strength and durability which asks for innovation and growth in the Reinforcement Material Market.

The usage of Reinforcement Materials in various industries owing to their exclusive properties has been driving market growth on a huge scale. As per ResearchGate, projections suggest that by the year 2029, the global consumption of carbon fiber is anticipated to attain a figure of 7.8 billion units. According to European Union, In 2020, concurrent with economic trends, the quantity of enterprises within the expansive construction sector rose by 33.2%, reaching a total of 715,198 entities. The increasing demand for high-speed and run-flat tires is fostering the widespread adoption of Reinforcement Materials across various sectors, including space shuttle landing, heavy-duty trucking, cycling, and earthmoving operations spanning globally. Furthermore, with the expansion of the automotive industry, there is a growing demand for lighter and stronger materials to enhance performance and efficiency. Reinforcement materials like carbon fiber composites are increasingly sought after for vehicle components. However, Carbon fiber manufacturing involves a costly and intricate process. It starts with converting carbon-rich materials into precursor fiber, followed by carbonization and graphitization to enhance its properties.

The key regions considered for the Global Reinforcement Materials Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022. The rapid growth of automotive manufacturing in China and India, alongside extensive urbanization, and recent development initiatives, serves as prominent growth catalysts. Furthermore, the rapid expansion and increased investment in defense assets within the developing economies of India and China contribute significantly to the rising demand for Reinforcement Materials in the market. Asia Pacific is expected to grow significantly over the forecast period, owing to factors such as increased funding for research and development, coupled with a focus on advancing technologies, which is expected to bolster the Japanese automotive market. Moreover, advancements in organizational efforts in countries such as China and India are anticipated to further augment the demand for Reinforcement Materials in the marketplace.

Major market player included in this report are:

3B - the fiberglass company

BASF SE

Bast Fibers LLC

Binani Industries Limites

Century Enka Limited

Cordenka GmbH

Dupont De Nemours Inc.

Formosa Taffeta Co. Ltd.

Honywell International Inc.

Hyosung Advanced Materials

Recent Developments in the Market:

In September 2022, 3B is pleased to announce its role as a collaborating partner in the MC4 (Multi-level Circular Process Chain for Carbon and Glass Fiber Composites) project, an initiative within Europe. MC4 is a European consortium with the objective of pioneering circular methodologies for carbon and glass fiber composites.

In February 2021, BASF is expanding its Ultramid Advanced PPA portfolio with carbon-fiber reinforced grades (20%, 30%, and 40% fillings). These materials offer lightweight, electrically conductive alternatives to aluminum and magnesium, maintaining stiffness and strength.

In September 2021, Century Enka disclosed a capital investment amounting to Rs. 309 Crores aimed at enhancing its competitive stance in the tire reinforcement market. This endeavor entails modernizing existing facilities and increasing production capacity by 30%.

Global Reinforcement Materials Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered – Material, Form, Application, End Use, Region

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

Customization Scope - Free report customization (equivalent up to 8 analyst's 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 to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Material:

Glass Fiber

Carbon Fiber

Aramid Fiber

Basalt Fiber

Natural Fiber

Steel Rebar

By Form:

Multi-End and Single-End Roving

Mats and Veils

Woven

Stitched

Braided

3D Fabrics

Unidirectional

Prepreg

Milled

Chopped Strands

Yarn

Others

By Application:

Composite

Concrete

Others

By End Use:

Building & Construction

Automotive

Home Appliances

Electrical and Electronics

Power & Energy

Marine

Aerospace & Defence

Sporting Goods

Medical & Healthcare

Locomotive & Transportation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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