

Carbon Fiber in Sports Equipment Market Report by Carbon Fiber Type (PAN-based, Pitch-based, and Others), Application (Sports Sticks, Rackets, Skis and Snowboards, and Others), and Region 2025-2033

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Report description:

The global carbon fiber in sports equipment market size reached USD 356.1 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 542.8 Million by 2033, exhibiting a growth rate (CAGR) of 4.55% during 2025-2033. The growing demand for durable and comfortable sports equipment, increasing preferences for carbon fiber bikes among cyclists, and rising utilization to manufacture various rackets represent some of the key factors driving the market.

Carbon fiber, also known as graphite fiber, comprising numerous filaments and it is manufactured through the thermal conversion of organic fibers with low carbon content, such as polyacrylonitrile (PAN). It is cost-effective, strong, and lightweight and provides superior strength and durability. It is also chemical, corrosion, and stress resistant; has temperature tolerance; and does not get affected by wind or water. Besides this, it assists in providing flexibility in designs, increasing performance, and has low-density as compared to other fibers. As it is widely utilized to produce equipment for various sports, such as cricket, badminton, swimming, and cycling, the demand for carbon fiber in sports equipment is rising across the globe.

Carbon Fiber in Sports Equipment Market Trends:

At present, the increasing utilization of carbon fiber to manufacture lightweight, better grip, and unique shape tennis, badminton, and squash rackets worldwide represents one of the key factors contributing to the growth of the market. Additionally, there is a rise in the demand for durable, comfortable, flexible, and high-quality sports equipment among sportspeople around the world. This, coupled with the increasing preference for carbon fiber bikes as compared to aluminum alloy among cyclists, is bolstering the growth of the market. Besides this, the growing application of carbon fiber in sports shoes among cyclists to prevent foot injury and maintain balance on the road is offering a positive market outlook. In addition to this, the increasing adoption of carbon fiber in golf equipment, as it provides better control and stiffness and does not create dents or cracks, is strengthening the growth

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of the market. Apart from this, the rising demand for carbon fiber in skis and snowboards to produce tougher and lighter carbon fiberboards is offering lucrative growth opportunities to industry investors. Moreover, the increasing employment of carbon fiber in various water sports equipment, as it offers increased tensile strength and withstands high impact, and does not erode with water, is supporting the growth of the market. In line with this, the rising demand for sports equipment among individuals as leisure activities are propelling the growth of the market. Furthermore, the increasing adoption of sports equipment due to rising health consciousness and to maintain physical health and fitness among individuals across the globe is impelling the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global carbon fiber in sports equipment market report, along with forecasts at the global, regional and country levels from 2025-2033. Our report has categorized the market based on carbon fiber type and application.

Carbon Fiber Type Insights:

Carbon Fiber in Sports Equipment Market Report

- PAN-based
- Pitch-based
- Others

The report has provided a detailed breakup and analysis of the carbon fiber in sports equipment market based on the carbon fiber type. This includes PAN-based, pitch-based, and others. According to the report, PAN-based represented the largest segment.

Application Insights:

- Sports Sticks
- Rackets
- Skis and Snowboards
- Others

A detailed breakup and analysis of the carbon fiber in sports equipment market based on the application has also been provided in the report. This includes sports sticks, rackets, skis and snowboards, and others. According to the report, sports sticks accounted for the largest market share.

Regional Insights:

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- North America
- United States
- Canada
- Asia Pacific
- China
- Japan
- India
- South Korea

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- Australia
- Indonesia
- Others
- Europe
- Germany
- France
- United Kingdom
- Italy
- Spain
- Russia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the largest market for carbon fiber in sports equipment. Some of the factors driving the Asia Pacific carbon fiber in sports equipment market included the growing health consciousness among individuals, increasing employment in water sports equipment, rising preferences for durable and lightweight sports equipment, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global carbon fiber in sports equipment market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Hexcel Corporation, Mitsubishi Chemical Carbon Fiber and Composites Inc. (Mitsubishi Chemical Group Corporation), Nippon Graphite Fiber Co. Ltd., SGL Carbon SE, Solvay, Taekwang Industrial Co. Ltd., Teijin Limited, Toray Industries Inc., Weihai Guangwei composite material Co. Ltd., Zhongfu Shenying Carbon Fiber Co. Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

- How has the global carbon fiber in sports equipment market performed so far, and how will it perform in the coming years?
- What are the drivers, restraints, and opportunities in the global carbon fiber in sports equipment market?
- What is the impact of each driver, restraint, and opportunity on the global carbon fiber in sports equipment market?
- What are the key regional markets?
- Which countries represent the most attractive carbon fiber in the sports equipment market?
- What is the breakup of the market based on the carbon fiber type?
- Which is the most attractive carbon fiber type in the carbon fiber in sports equipment market?
- What is the breakup of the market based on the application?
- Which is the most attractive application in the carbon fiber in sports equipment market?
- What is the competitive structure of the global carbon fiber in sports equipment market?
- Who are the key players/companies in the global carbon fiber in sports equipment market?

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Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Carbon Fiber in Sports Equipment Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Carbon Fiber Type
 - 6.1 PAN-based
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Pitch-based
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Others
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 7 Market Breakup by Application
 - 7.1 Sports Sticks
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Rackets
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Skis and Snowboards
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 8 Market Breakup by Region
 - 8.1 North America
 - 8.1.1 United States

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- 8.1.1.1 Market Trends
- 8.1.1.2 Market Forecast
- 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends
 - 8.2.1.2 Market Forecast
 - 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
 - 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
 - 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
 - 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
 - 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
 - 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others

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- 8.3.7.1 Market Trends
- 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 Drivers, Restraints, and Opportunities
 - 9.1 Overview
 - 9.2 Drivers
 - 9.3 Restraints
 - 9.4 Opportunities
- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes
- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 Hexcel Corporation
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.1.4 SWOT Analysis
 - 13.3.2 Mitsubishi Chemical Carbon Fiber and Composites Inc. (Mitsubishi Chemical Group Corporation)
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.3 Nippon Graphite Fiber Co. Ltd.
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.4 SGL Carbon SE
 - 13.3.4.1 Company Overview

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- 13.3.4.2 Product Portfolio
- 13.3.4.3 Financials
- 13.3.4.4 SWOT Analysis
- 13.3.5 Solvay
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
- 13.3.6 Taekwang Industrial Co. Ltd.
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 Financials
- 13.3.7 Teijin Limited
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 Toray Industries Inc.
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis
- 13.3.9 Weihai Guangwei composite material Co. Ltd.
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 SWOT Analysis
- 13.3.10 Zhongfu Shenying Carbon Fiber Co. Ltd.
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 SWOT Analysis

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

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