

High-Performance Fibre Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 157 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$3599.00
- Five User License \$4249.00
- Corporate License \$5099.00

Report description:

The global high-performance fibre market is further expected to grow at a CAGR of 10.00% between 2025 and 2034.

Growing Demand for Carbon Fibre to Bolster the Market Growth of High-Performance Fibre

The carbon fibre segment, among other types, is anticipated to grow at the robust rate during the forecast period owing to its growing demand in the automotive and aerospace and defence segments due to its high impact resistance, high strength, excellent corrosion resistance, and fatigue resistance characteristics. Thus, the increasing preference for carbon fibre is driving the growth of overall high-performance fibre industry. By application, aerospace and defence is projected to be the leading and one of the fastest growing segments in the market during the forecast period.

North America to be a Significant Regional Market for the High-Performance Fibre Industry

North America is expected to be a significant regional market for high-performance fibre owing to the strong growth of the defence and military sector in the region. The Asia Pacific is expected to be the fastest-growing region, especially India and China, owing to the rising demand for high-performance fibre from the growing automotive and defence sector in the region.

High-Performance Fibre: Market Segmentation

High-performance fibres are synthetic fibres that are engineered specially to perform a task requiring excellent strength and stiffness with exceptional heat and chemical resistance. These fibres are used in a variety of fabric applications, ranging from bulletproof vests to trampolines and so on.

The various types of high-performance fibre available in the market are

- Carbon Fibre

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Aramid Fibre
- Glass Fibre
- M5/PIPD Fibre
- Polybenzimidazole (PBI) Fibre
- Polybenzoxazole (PBO) Fibre
- High Strength Polyethylene Fibre
- Others

On the basis of application, the industry is divided into:

- Aerospace and Defence
- Automotive
- Construction and Building
- Electronics and Telecommunication
- Sporting Goods
- Textile
- Others

Based on region, the market can be divided into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Rising Demand for Light Weight Vehicles to Support the Market Growth of High-Performance Fibre

The global market for high-performance fibre is being driven by the rising demand for lightweight vehicles and equipment with excellent strength. High-performance fibre is witnessing an increased demand for applications in military vehicles, aircraft, electronics, and sports goods, which is driving the growth of the high-performance fibre industry globally.

The market is being driven by its rising demand in aerospace and defence sector owing to the product's exceptional strength and lightweight characteristics. Further, the growing technological advancements pertaining to the use of additive manufacturing in aerospace production is expected to create new growth opportunities for the industry over the forecast period. Lightweight materials provide high strength and stiffness at a reduced weight, ultimately reducing fuel consumption. Thus, the preference for lightweight materials is increasing in an effort to improve the cost-efficiency and performance of the aircraft. Further, with growing passenger traffic, the production of aircraft is also increasing, which is expected to drive the industry growth in the future.

Moreover, the high-performance fibre is witnessing an increased demand due to its growing use as a substitute for asbestos to manufacture products, such as bulletproof jackets, tyres, concrete reinforcing, and heat-resistant cushions. Further, they are being adopted for applications in wind power generator blades, ropes, and fishing nets, which is supporting the industry growth.

Key Industry Players in the Global High-Performance Fibre Market

The report gives a detailed analysis of the following key players in the global high-performance fibre market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity,

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

and plant turnarounds:

- DuPont de Nemours, Inc.
- Toray Industries, Inc.
- Mitsubishi Chemical Corporation
- Kureha Corporation
- Koninklijke DSM N.V.,
- Owens Corning Intellectual Capital, LLC.
- ZOLTEK Corporation
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size 2024-2025
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global High-Performance Fibre Market Analysis
 - 5.1 Key Industry Highlights

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.2 Global High-Performance Fibre Historical Market (2018-2024)
- 5.3 Global High-Performance Fibre Market Forecast (2025-2034)
- 5.4 Global High-Performance Fibre Market by Type
 - 5.4.1 Carbon Fibre
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 Aramid Fibre
 - 5.4.2.1 Historical Trend (2018-2024)
 - 5.4.2.2 Forecast Trend (2025-2034)
 - 5.4.3 Glass Fibre
 - 5.4.3.1 Historical Trend (2018-2024)
 - 5.4.3.2 Forecast Trend (2025-2034)
 - 5.4.4 M5/PIPD Fibre
 - 5.4.4.1 Historical Trend (2018-2024)
 - 5.4.4.2 Forecast Trend (2025-2034)
 - 5.4.5 Polybenzimidazole (PBI) Fibre
 - 5.4.5.1 Historical Trend (2018-2024)
 - 5.4.5.2 Forecast Trend (2025-2034)
 - 5.4.6 Polybenzoxazole (PBO) Fibre
 - 5.4.6.1 Historical Trend (2018-2024)
 - 5.4.6.2 Forecast Trend (2025-2034)
 - 5.4.7 High Strength Polyethylene Fibre
 - 5.4.7.1 Historical Trend (2018-2024)
 - 5.4.7.2 Forecast Trend (2025-2034)
 - 5.4.8 Others
- 5.5 Global High-Performance Fibre Market by Application
 - 5.5.1 Aerospace and Defence
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 Automotive
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 Construction and Building
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Electronics and Telecommunication
 - 5.5.4.1 Historical Trend (2018-2024)
 - 5.5.4.2 Forecast Trend (2025-2034)
 - 5.5.5 Sporting Goods
 - 5.5.5.1 Historical Trend (2018-2024)
 - 5.5.5.2 Forecast Trend (2025-2034)
 - 5.5.6 Textile
 - 5.5.6.1 Historical Trend (2018-2024)
 - 5.5.6.2 Forecast Trend (2025-2034)
 - 5.5.7 Others
- 5.6 Global High-Performance Fibre Market by Region
 - 5.6.1 North America

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 5.6.1.1 Historical Trend (2018-2024)
- 5.6.1.2 Forecast Trend (2025-2034)
- 5.6.2 Europe
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
- 5.6.3 Asia Pacific
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
- 5.6.4 Latin America
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
- 5.6.5 Middle East and Africa
 - 5.6.5.1 Historical Trend (2018-2024)
 - 5.6.5.2 Forecast Trend (2025-2034)
- 6 North America High-Performance Fibre Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe High-Performance Fibre Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
 - 7.5 Others
- 8 Asia Pacific High-Performance Fibre Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)
 - 8.3.2 Forecast Trend (2025-2034)
 - 8.4 ASEAN
 - 8.4.1 Historical Trend (2018-2024)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.4.2 Forecast Trend (2025-2034)
- 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)
- 8.6 Others
- 9 Latin America High-Performance Fibre Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)
 - 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
 - 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
 - 9.4 Others
- 10 Middle East and Africa High-Performance Fibre Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2034)
 - 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
 - 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Price Analysis
- 14 Competitive Landscape

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.1 Supplier Selection
- 14.2 Key Global Players
- 14.3 Key Regional Players
- 14.4 Key Player Strategies
- 14.5 Company Profiles
 - 14.5.1 DuPont de Nemours, Inc.
 - 14.5.1.1 Company Overview
 - 14.5.1.2 Product Portfolio
 - 14.5.1.3 Demographic Reach and Achievements
 - 14.5.1.4 Certifications
 - 14.5.2 Toray Industries, Inc.
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
 - 14.5.3 Mitsubishi Chemical Corporation
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
 - 14.5.4 Kureha Corporation
 - 14.5.4.1 Company Overview
 - 14.5.4.2 Product Portfolio
 - 14.5.4.3 Demographic Reach and Achievements
 - 14.5.4.4 Certifications
 - 14.5.5 Koninklijke DSM N.V.,
 - 14.5.5.1 Company Overview
 - 14.5.5.2 Product Portfolio
 - 14.5.5.3 Demographic Reach and Achievements
 - 14.5.5.4 Certifications
 - 14.5.6 Owens Corning Intellectual Capital, LLC.
 - 14.5.6.1 Company Overview
 - 14.5.6.2 Product Portfolio
 - 14.5.6.3 Demographic Reach and Achievements
 - 14.5.6.4 Certifications
 - 14.5.7 ZOLTEK Corporation
 - 14.5.7.1 Company Overview
 - 14.5.7.2 Product Portfolio
 - 14.5.7.3 Demographic Reach and Achievements
 - 14.5.7.4 Certifications
 - 14.5.8 Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

High-Performance Fibre Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 157 pages | EMR Inc.

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$3599.00
	Five User License	\$4249.00
	Corporate License	\$5099.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-06"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com