

# **Global High Performance Fiber Market by Fiber Type (Aramid Fiber, Carbon Fiber, Glass Fiber, PBI Fiber, High Strength PE Fiber, PPS Fiber, Others), by End Use Industry (Aerospace & Defense, Sporting Goods, Automotive, Medical, Wind Energy, Oil & Gas, Building & Construction, Electrical & Electronics, Non-Woven, Filtration, and Others), by Form of Use (Polymer Composites and Non-Polymer Composites), by Sales Channel (Direct Sales and Distributors), and by Region (North America, Europe, Asia-Pacific, and Rest of the World), Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2016 – 2021**

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## **Abstracts**

This is the ONGOING report. If ordered it could be delivered in 2-3 weeks timeframe.

This report, from Stratview Research, studies the high performance fiber market over the period 2010 to 2021. The report provides detailed insights on the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

### **The High Performance Fiber Market: Highlights**

The demand of lightweight products at superior strength is the core requirement in the high performance industries, such as aerospace and defense. Similarly, the strict

government regulations in the automotive industry, such as CAF? standard are putting pressure on OEMs to curb the overall vehicle weight to achieve high fuel efficiency and reduce carbon emission. These are some of the factors compelling OEMs to develop products leveraging high performance fibers in the structural applications, such as aircraft fuselage & wings, automotive monocoque, wind blades, and ballistic armor. High performance fibers include carbon fiber (PAN and Pitch), aramid fiber (Meta and Para), S-glass fiber, Polybenzimidazole (PBI) Fiber, High-Strength PE Fiber, Boron fiber, and Polyphenylene sulfide (PPS) Fiber.

The high performance fiber market offers a healthy growth opportunity and is likely to grow at a 9.2% CGAR during the forecast period of 2016 to 2021. Carbon fiber is likely to drive the global high performance fibers market mainly driven by increasing penetration in the automotive, aerospace & defense, and wind energy segments. High impact resistance, high specific strength and modulus, excellent corrosion resistance and fatigue resistance are the major drivers of high performance fibers market.

Aerospace and defense is expected to remain dominant and one of the fastest growing segments in the high performance fibers market during the forecast period. North America is expected to remain the largest market for high performance fibers during the forecast period.

The supply chain of this market comprises raw material manufacturers, fiber manufacturers, distributors, part fabricators, and OEMs. Some of part fabricators are GKN Aerospace, Spirit Aerosystem, Tecsis, Mubea Carbo Tech, and Hexagon composites and key OEMs are Airbus, Boeing, Northrup Grumman, Bombardier, Vestas, General Motors, BMW, and Ford.

The key high performance fiber manufactures are Toray Industries, Teijin Industries, DuPont, Royal DSM, AGY Holdings, Owens Corning, and 3B Fiberglass. New product development, new optimized manufacturing process development, collaboration with customers, and long term contacts are the key strategies adopted by the key players to gain competitive edge in the market.

## Research Methodology

This report offer high quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 1,000 authenticated secondary

sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles have been leveraged to gather the data. More than 10 detailed primary interviews with the market players across the value chain in the all four regions and industry experts have been executed to obtain both the qualitative and quantitative insights.

## Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights on the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

- Market structure: Overview, industry life cycle analysis, supply chain analysis

- Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

- Market trend and forecast analysis

- Market segment trend and forecast

- Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.

- Attractive market segments and associated growth opportunities

- Emerging trends

- Strategic growth opportunities for the existing and new players

- Key success factors

The high performance fiber market is segmented into the following categories.

High Performance Fiber Market by Fiber Type:

Aramid Fiber

Meta Aramid

Para Aramid

Carbon Fiber

PAN based Carbon Fiber

Pitch based Carbon Fiber

Glass fiber

Polybenzimidazole (PBI) Fiber

High-Strength PE Fiber

Polyphenylene sulfide (PPS) Fiber

Others High Performance Fiber

High Performance Fiber Market by End Use Industry:

Aerospace and Defense

Commercial Aircraft

Regional Aircraft

General Aviation

Helicopter

Military

Others

## Sporting Goods

Golf Shaft

Fishing Rods

Skis and Snowboard

Others

## Automotive

Pressure vessel

Monocoque/Passenger Cell

Body Closures

Others

## Medical

Table for CT Scan and MRI Scan

Prosthetic Devices

Others

## Wind Energy

Blades

Others

## Oil & Gas

Bulk Storage

Others

Building and Construction

Electrical and Electronics

Non-Woven

Filtration

Others

High Performance Glass Fiber Market by Usage:

Polymer Composites

Non Polymer Composites

High Performance Glass Fiber Market by Distribution Channel:

Direct Sales

Distributors

High Performance Glass Fiber Market by Region:

North America

Europe

Asia – Pacific

Rest of the World

Report Customization Options

With this detailed report, Stratview Research offers one of the following free

*Global High Performance Fiber Market by Fiber Type (Aramid Fiber, Carbon Fiber, Glass Fiber, PBI Fiber, High S...*

customization options to our respectable clients:

#### Company Profiling

Detailed profiling of additional market players (upto 3)

SWOT analysis of key players (upto 3)

#### Geographic Analysis

Further segmentation of North America into USA, Canada, and Mexico

#### Regional Segmentation

Current market segmentation of any one of the regions by fiber type

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- 11.21. Ticona
- 11.22. Toray Industries
- 11.23. Yantai Tanyo Advanced Materials

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