

Global Preoxidized Fiber Material Market Growth 2026-2032

<https://marketpublishers.com/r/GEF112CF1EFDEN.html>

Date: May 2026

Pages: 79

Price: US\$ 3,660.00 (Single User License)

ID: GEF112CF1EFDEN

Abstracts

The global Preoxidized Fiber Material market size is predicted to grow from US\$ 875 million in 2025 to US\$ 1420 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

Preoxidized Fiber Material is a thermally stabilized organic fiber (most commonly PAN-based, also pitch- or rayon-based) produced by controlled oxidation in air so the polymer becomes infusible and flame-resistant; it is typically used directly as a heat-/flame-resistant fiber/felt, or as an intermediate precursor before high-temperature carbonization to make carbon fiber or carbon felt.

Upstream includes PAN/pitch/rayon precursor supply, comonomers and solvents, spinning additives, energy utilities, and stabilization equipment makers; midstream covers precursor fiber spinning (wet/dry-jet wet), washing/drawing, then continuous preoxidation (stabilization) lines that deliver preoxidized tow, staple, yarn, or needle-punched/nonwoven felts plus QA, packaging, and logistics; downstream converts the material into flame-resistant textiles, insulation felts, fire-blocking layers, filtration media, and high-temperature gaskets, or further carbonizes it into carbon fiber/carbon felt used in furnaces, aerospace thermal protection, and battery electrodes, sold via industrial distributors and OEM contracts.

Projects under construction and planned commonly include capacity additions of PAN-based precursor and stabilization (preoxidation) lines near carbon-fiber clusters, upgrades to wider/higher-throughput multi-zone stabilization ovens, new needle-punch nonwoven and felt lines aimed at thermal insulation and battery carbon-felt precursors, integration projects that link precursor spinning?preoxidation?carbonization to reduce intermediate logistics, localized build-outs in China and other Asian manufacturing hubs

to support PPE/fire-protection and energy-storage demand, and debottlenecking programs such as heat-recovery systems, advanced off-gas treatment, and digital control retrofits to improve yield, uniformity, and energy intensity.

2025 Global Market sales Volume: 172,000 tons. Average Global Market Price: US\$5,200 per ton. Market Average Gross Profit Margin: 28%.

United States market for Preoxidized Fiber Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Preoxidized Fiber Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Preoxidized Fiber Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Preoxidized Fiber Material players cover TORAY, SGL Carbon, Teijin, Mitsubishi Chemical, Vison Fiber, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Preoxidized Fiber Material Industry Forecast" looks at past sales and reviews total world Preoxidized Fiber Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Preoxidized Fiber Material sales for 2026 through 2032. With Preoxidized Fiber Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Preoxidized Fiber Material industry.

This Insight Report provides a comprehensive analysis of the global Preoxidized Fiber Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Preoxidized Fiber Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Preoxidized Fiber Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Preoxidized Fiber Material and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of

opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Preoxidized Fiber Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Preoxidized Fiber Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PAN-Based Preoxidized Fiber

Pitch-Based Preoxidized Fiber

Rayon-Based Preoxidized Fiber

Segmentation by Tow Size:

Small Tow (1K–6K)

Medium Tow (12K–24K)

Large Tow (48K–320K)

Segmentation by End Industry:

Aerospace

Automotive

Construction

Energy & Power

Defense & Military

Others

Segmentation by Application:

Carbon Fiber

Fire-Resistant and Flame-Retardant Materials

Thermal Insulation Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TORAY

SGL Carbon

Teijin

Mitsubishi Chemical

Vizon Fiber

Key Questions Addressed in this Report

What is the 10-year outlook for the global Preoxidized Fiber Material market?

What factors are driving Preoxidized Fiber Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Preoxidized Fiber Material market opportunities vary by end market size?

How does Preoxidized Fiber Material break out by Type, by Application?

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