

Global Preoxidized Fiber Material Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF3441E539B8EN.html>

Date: February 2026

Pages: 84

Price: US\$ 4,480.00 (Single User License)

ID: GF3441E539B8EN

Abstracts

The global Preoxidized Fiber Material market size is expected to reach \$ 1457 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

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%.

This report studies the global Preoxidized Fiber Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Preoxidized Fiber Material and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Preoxidized Fiber Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Preoxidized Fiber Material total production and demand, 2021-2032, (Tons)

Global Preoxidized Fiber Material total production value, 2021-2032, (USD Million)

Global Preoxidized Fiber Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Preoxidized Fiber Material consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Preoxidized Fiber Material domestic production, consumption, key domestic manufacturers and share

Global Preoxidized Fiber Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Preoxidized Fiber Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Preoxidized Fiber Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Preoxidized Fiber Material market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TORAY, SGL Carbon, Teijin, Mitsubishi Chemical, Vison Fiber, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Preoxidized Fiber Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Preoxidized Fiber Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Preoxidized Fiber Material Market, Segmentation by Type:

PAN-Based Preoxidized Fiber

Pitch-Based Preoxidized Fiber

Rayon-Based Preoxidized Fiber

Global Preoxidized Fiber Material Market, Segmentation by Tow Size:

Small Tow (1K–6K)

Medium Tow (12K–24K)

Large Tow (48K–320K)

Global Preoxidized Fiber Material Market, Segmentation by End Industry:

Aerospace

Automotive

Construction

Energy & Power

Defense & Military

Others

Global Preoxidized Fiber Material Market, Segmentation by Application:

Carbon Fiber

Fire-Resistant and Flame-Retardant Materials

Thermal Insulation Materials

Others

Companies Profiled:

TORAY

SGL Carbon

Teijin

Mitsubishi Chemical

Vizon Fiber

Key Questions Answered:

1. How big is the global Preoxidized Fiber Material market?
2. What is the demand of the global Preoxidized Fiber Material market?
3. What is the year over year growth of the global Preoxidized Fiber Material market?
4. What is the production and production value of the global Preoxidized Fiber Material market?
5. Who are the key producers in the global Preoxidized Fiber Material market?
6. What are the growth factors driving the market demand?

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