

Polyphenylene Sulfide (PPS) Fiber - A Global Market Overview

Market Report | 2026-01-05 | 149 pages | Industry Experts

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Report description:

Global Polyphenylene Sulfide (PPS) Fiber Market Trends and Outlook

The global polyphenylene sulfide (PPS) fiber market is positioned for steady expansion through the forecast period, supported by its unique combination of high thermal stability, inherent flame retardancy, chemical resistance, and long-term dimensional integrity. These performance attributes make PPS fiber indispensable in harsh operating environments where conventional synthetic fibers fail, particularly in applications exposed to sustained high temperatures, corrosive chemicals, and aggressive filtration conditions. Global PPS fiber industry demonstrates a steady upward trajectory, with total demand rising from US\$184.5 million in 2025 to about US\$254.3 million in 2032 at a CAGR of 4.7%, supported by resilient adoption in high-performance filtration, insulation, and specialty applications.

Market growth is being driven primarily by tightening industrial emission standards, rising investment in high-temperature filtration systems, and the growing need for durable insulation and protective materials across power generation, chemicals, cement, steel, and waste-to-energy industries. PPS fiber's increasing substitution for glass fiber and other specialty fibers in selected industrial uses is further strengthening demand, especially where lifecycle cost, durability, and regulatory compliance are critical decision factors.

The PPS fiber industry is led by a small group of global specialty materials manufacturers, including Huvis, Sichuan Anfeier (UNFIRE), Toray, TOYOBO MC and Zhejiang NHU. These companies compete primarily on product performance, process know-how, and long-term supply relationships with industrial end users.

Polyphenylene Sulfide (PPS) Fiber Regional Market Analysis

Asia-Pacific dominates the global PPS fiber market, with 83.1% share in 2025 and is forecast to surge to 21 thousand metric tons by 2032, also achieving the fastest regional growth at a robust 5.4% CAGR, thus combining both the largest and fastest-growing status in a single trend line. Rest of World follows as the second-fastest-growing region, driven by expanding industrial and filtration applications. North America remains the second-largest market, while Europe records the slowest growth.

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Polyphenylene Sulfide (PPS) Fiber Market Analysis by Application

Filters & Membranes dominate the global PPS fiber market in the 2025, accounting for around 72% of total demand and rising steadily to 18 thousand metric tons by 2032, maintaining their position as both the largest and the fastest-growing segment with a 5.4% CAGR. Insulation Materials follow as the clear second-largest application, and also rank as the second-fastest-growing segment, closely trailing the market leader. Protective Garments and Others remain smaller-volume uses, each under 1 thousand metric tons in 2025, but continue to rise gradually, supported by niche demand in safety, specialty industrials, and emerging composite and battery-related uses.

PPS Fiber Market Report Scope

This global report on Polyphenylene Sulfide (PPS) Fiber analyzes the market based on application for the period 2022-2032 with projections from 2025 to 2032 in terms of volume consumption in metric tons and value market in US\$. This report also reveals historical and current PPS Fiber installed production capacities and future expansions by PPS Fiber manufacturers across the globe. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of PPS Fiber industry.

Key Metrics

Historical Period: 2022-2024

Base Year: 2025

Forecast Period: 2025-2032

Units: Volume consumption in metric tons and Value market in US\$

Companies Mentioned: 11

Global PPS Fiber Market by Geographic Region

- North America (The United States and Canada)
- Europe (France, Germany, Italy, Spain, Russia, The United Kingdom and Rest of Europe)
- Asia-Pacific (China, India, Japan, South Korea and Rest of Asia-Pacific)
- Rest of World

Global PPS Fiber Market by Application

- Filters & Membranes
- Insulation Materials
- Protective Garments (or) Safety & Protection Garments
- Other Applications (Automotive composites, Battery Separators, Conveyor Belts etc.)

Global PPS Fiber Installed (Theoretical) Production Capacity

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- Filters & Membranes
- Insulation Materials
- Protective Garments (Safety & Protection Garments)
- Other Applications

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 - o Jiangsu Fusheng Environmental Protection Group Co., Ltd. (China)
 - o KB Seiren, Ltd. (Japan)
 - o Sichuan Anfeier (UNFIRE) Polymer Materials Technology Co., Ltd. (China)
 - o Toray Industries, Inc. (Japan)
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