

Global PAN Fiber Market Growth 2026-2032

<https://marketpublishers.com/r/GEA9D22147BBEN.html>

Date: June 2026

Pages: 133

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

ID: GEA9D22147BBEN

Abstracts

The global PAN Fiber market size is predicted to grow from US\$ 8181 million in 2025 to US\$ 10067 million in 2032; it is expected to grow at a CAGR of 3.0% from 2026 to 2032.

Global polyacrylonitrile fiber sales reached 3.88 million tons in 2025, with an average price of US\$2,153 per ton.

Polyacrylonitrile fiber, also known as acrylic fiber, is a synthetic fiber produced by wet spinning or dry spinning of an acrylonitrile copolymer (usually with the addition of a second monomer such as methyl acrylate and a third monomer such as itaconic acid or sodium propylene sulfonate) containing 75% acrylonitrile. It is white, crimped, fluffy, and soft to the touch, resembling wool, hence the name 'synthetic wool.' Key properties include: good elasticity (65% resilience at 20% elongation), 15% higher warmth retention than wool, excellent sun resistance (strength decreases by only 20% after one year of outdoor exposure), and resistance to acids and oxidants but poor alkali resistance.

The supply of raw materials for polyacrylonitrile fiber exhibits significant dependence on petrochemicals and economies of scale, resulting in a large variation in its cost structure depending on the production process and product grade. Raw material costs account for 65-70% of total costs, with acrylonitrile monomer accounting for the largest share (approximately 50-55%). Acrylonitrile prices are directly affected by fluctuations in oil and natural gas prices, with an average price of approximately 12,000-15,000 yuan/ton in 2024. Second/third monomers (methyl acrylate, methyl methacrylate, itaconic acid, sodium propylene sulfonate, etc.) account for 10-15%. Solvents (DMF, DMSO, etc.) account for 5-10%. Wet spinning uses inorganic solvents (NaSCN, ZnCl₂ aqueous solution) which are less expensive, while dry spinning uses organic solvents (DMF) which are more expensive but produce better fiber quality. Energy and equipment costs

account for 15-20%. Polymerization reactions require precise control of temperature (60-80°C) and stirring speed, and the spinning process requires high-temperature steam drawing and drying, resulting in high energy consumption. It is worth noting that leading companies such as Jilin Chemical Fiber have reduced production costs to the lowest level in the industry through large-scale production and technological innovation, and their 530,000-ton capacity has a significant scale effect. Processing and manufacturing costs account for approximately 10-15%, including multiple processes such as polymerization, monomer removal, defoaming, spinning, coagulation, washing, stretching, oiling, crimping, cutting, drying, and heat setting. Among these, spinning speed and coagulation bath conditions directly affect the fiber cross-sectional shape and mechanical properties. Differentiated fibers (anti-pilling, flame retardant, high shrinkage, etc.) require additional modifiers or special processes, increasing costs by 10%-30%. Quality control and testing costs account for 5-10%, requiring testing of indicators such as molecular weight distribution, fiber fineness (dtex), strength (cN/dtex), elongation at break, moisture regain, and dyeing performance. Overall, polyacrylonitrile fiber is a mid-priced synthetic fiber product with significant economies of scale and high differentiated added value. Its cost structure is influenced by multiple factors, including acrylonitrile price fluctuations, energy costs, solvent recovery efficiency, and the degree of differentiated modification. China, leveraging the production capacity advantage of leading companies like Jilin Chemical Fiber (accounting for over 40% of the global market) and its complete petrochemical industry chain, holds a dominant position in the global market. However, it still lags behind international giants like Toray Industries and Mitsubishi Chemical in high-end differentiated products (such as carbon fiber precursor and ultrafine denier fiber).

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

This Insight Report provides a comprehensive analysis of the global PAN Fiber 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 PAN Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PAN Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PAN Fiber 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 PAN Fiber.

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

Segmentation by Type:

Staple Fibers

Tows

Others

Segmentation by Polymerization Process:

One-Step

Two-Step

Segmentation by Spinning Method:

Wet Spinning

Dry Spinning

Segmentation by Application:

Clothing

Home Furnishings and Bedding

Industrial Uses

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.

Aksa Carbon

Mitsubishi Chemical

Aditya Birla Group

Formosa M

Japan Exlan

Taekwang

Toray

Kaltex

Pasupati Acrylon

SGL Carbon

Sudamericana De Fibras

Indian Acrylics

Sinopec

Jilin Chemical Fiber

CNPC

Ningbo Zhongxin Acrylic Fibers

Key Questions Addressed in this Report

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

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

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

How do PAN Fiber market opportunities vary by end market size?

How does PAN Fiber break out by Type, by Application?

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