

Global PAN Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PAN Fiber market size is expected to reach \$ 10482 million by 2032, rising at a market growth of 2.8% CAGR during the forecast period (2026-2032).

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?) 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).

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

This report is a detailed and comprehensive analysis of the world market for PAN Fiber 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 PAN Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PAN Fiber total production and demand, 2021-2032, (Kilotons)

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

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

Global PAN Fiber consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: PAN Fiber domestic production, consumption, key domestic manufacturers and share

Global PAN Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global PAN Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global PAN Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global PAN Fiber 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 Aksa Carbon, Mitsubishi Chemical, Aditya Birla Group, Formosa M, Japan Exlan, Taekwang, Toray, Kaltex, Pasupati Acrylon, SGL Carbon, 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 PAN Fiber market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 PAN Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PAN Fiber Market, Segmentation by Type:

Staple Fibers

Tows

Others

Global PAN Fiber Market, Segmentation by Polymerization Process:

One-Step

Two-Step

Global PAN Fiber Market, Segmentation by Spinning Method:

Wet Spinning

Dry Spinning

Global PAN Fiber Market, Segmentation by Application:

Clothing

Home Furnishings and Bedding

Industrial Uses

Others

Companies Profiled:

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 Answered:

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

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