

Global PAN Market Growth 2026-2032

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Abstracts

The global PAN market size is predicted to grow from US\$ 5122 million in 2025 to US\$ 7100 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

Global polyacrylonitrile sales reached 2.23 million tons in 2025, with an average price of US\$2,342 per ton.

Polyacrylonitrile (PAN), also known as polyvinyl cyanide and Creslan 61, is a synthetic, semicrystalline organic polymer resin, with the linear formula $(C_3H_3N)_n$. Though it is thermoplastic, it does not melt under normal conditions. It degrades before melting.

The supply of raw materials for polyacrylonitrile exhibits significant dependence on petrochemicals and is technology-intensive, resulting in a cost structure that varies considerably depending on product grade. Raw material costs account for 65-70% of the total cost, 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. Solvents (DMF, DMSO, etc.) account for 10-15%, while initiators, chain transfer agents, and other auxiliaries account for 5-10%. Energy and equipment costs account for 15-20%. The polymerization reaction requires precise control of temperature (60-80°C) and stirring speed. Solution polymerization technology is mature, but solvent recovery is energy-intensive. Notably, through large-scale production, the production cost of carbon fiber can be reduced from \$9.88/kg to \$2.03/kg, a reduction of 79.5%. The processing and manufacturing cost accounts for approximately 10-15%, including multiple processes such as polymerization, monomer removal, defoaming, spinning, washing, stretching, drying, and heat setting. The quality of the PAN precursor fiber directly determines the carbon fiber performance ('what kind of fiber, what kind of carbon'), requiring extremely high process control. Quality control and testing costs account for 5-10%, requiring testing of indicators such as molecular weight distribution, residual

monomer content, fiber fineness, strength, and modulus. Overall, polyacrylonitrile (PA) is a mid-priced polymer material with significant economies of scale and high downstream added value. Its cost structure is influenced by multiple factors, including acrylonitrile price fluctuations, energy costs, the level of large-scale production, and downstream applications (acrylic fiber vs. carbon fiber). China holds a dominant position globally due to its complete petrochemical industry chain and production capacity advantages, but it still lags behind Japan and the United States in the quality and cost of high-performance carbon fiber-grade PAN.

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

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

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

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

Segmentation by Type:

Acrylic Staple Fiber

Acrylic Tow

Others

Segmentation by Polymerization Processes:

Solution Polymerization

Aqueous Suspension Polymerization

Emulsion Polymerization

Segmentation by Copolymer Modification:

Homopolymer PAN

Copolymer PAN

Segmentation by Application:

Textiles

Precursors to carbon fiber

Fiber-reinforced concrete

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 market?

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

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

How do PAN market opportunities vary by end market size?

How does PAN break out by Type, by Application?

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