

Global Polyacrylonitrile Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polyacrylonitrile Material market size is expected to reach \$ 6459 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

Polyacrylonitrile Material, also known as polycyanamide ethylene ester or Cressland 61, is a synthetic semi-crystalline organic polymer resin with the linear molecular formula $(C_3H_3N)_n$. Polyacrylonitrile is a homopolymer of acrylic acid, known in the filtration field as acrylic fiber, and is made from 100% acrylonitrile. Almost all PAN resins are copolymers, composed of a mixture of multiple monomers with acrylonitrile as the main monomer. The main advantages of acrylic fiber (polyacrylonitrile) are its excellent hydrolysis resistance, low cost compared to high-performance fibers, and relatively high thermal stability. Acrylic fibers are not easily hydrolyzed; many applications employ waterproofing treatments to reduce their tendency to absorb moisture or rainwater. Polyacrylonitrile homopolymers have been used as fibers in hot air filtration systems, outdoor awnings, yacht sails, and fiber-reinforced concrete. Copolymers containing polyacrylonitrile are commonly used as fibers in the manufacture of knitted garments such as socks and sweaters, as well as outdoor products such as tents. In 2025, global polyacrylonitrile material production reached 1,988,800 metric tons, with an average price of approximately US\$2,539.52 per metric ton and a gross profit margin of approximately 20.78%.

Global Polyacrylonitrile (PAN) key players include AKSA, Montefibre, Dralon, Mitsubishi Rayon Group, TAF, etc. Global top five manufacturers hold a share over 25%. China is the largest market, with a share over 35%, followed by Europe, and Japan, both have a share about 40 percent. In terms of product, Acrylic Staple Fiber is the largest segment, with a share about 55%. And in terms of application, the largest application is Filtration, followed by Textiles, Fiber-reinforced concrete, carbon fiber, etc.

With the rapid growth in global demand for lightweight and high-performance materials, polyacrylonitrile (PAN), as a core precursor for carbon fiber manufacturing, has seen significant market development opportunities. PAN's high strength, heat resistance, and chemical stability have led to its expanding applications in aerospace, automotive lightweighting, wind power equipment, and sporting goods. Especially against the backdrop of rapid growth in demand for carbon fiber composites, PAN's strategic value has continuously increased, making it one of the fundamental strategic materials in advanced manufacturing. Meanwhile, traditional end-markets such as textiles, filtration, and composite materials maintain robust demand, providing stable support for the PAN market's development. Despite the positive market outlook, PAN production and supply still face challenges. First, PAN production is energy-intensive, and raw material and energy costs fluctuate significantly, which to some extent restricts the improvement of industry profit margins. Second, global supply chain geopolitics, uncertain logistics cost fluctuations, and strict environmental and energy consumption regulations in carbon fiber precursor production all put pressure on the industry. Furthermore, the development progress of alternative materials and technologies (such as bio-based high-performance polymers or novel carbon fiber precursor technologies) may also pose a long-term competitive risk to the traditional PAN market. On the downstream demand side, the biggest growth driver for PAN comes from the carbon fiber precursor market. Approximately 90% of commercial carbon fiber uses PAN as a raw material, a proportion that means the expansion of carbon fiber manufacturing directly drives PAN demand. With the accelerating trend of automotive lightweighting, the increasing proportion of electric vehicles, and the growing demand for high-performance materials in aerospace, the premiumization trend in the PAN market is becoming increasingly apparent. Meanwhile, the stable demand from traditional textile, filtration, and outdoor equipment industries in the global apparel and industrial fiber markets also provides a foundation for the PAN market. In the future, with the expansion of emerging application scenarios, such as PAN-based high-performance membrane materials, smart fibers, and functional fiber materials, the downstream demand structure for PAN will become more diversified.

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

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

Highlights and key features of the study

Global Polyacrylonitrile Material total production and demand, 2021-2032, (K MT)

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

Global Polyacrylonitrile Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Polyacrylonitrile Material consumption by region & country, CAGR, 2021-2032 & (K MT)

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

Global Polyacrylonitrile Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Polyacrylonitrile Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Polyacrylonitrile Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Polyacrylonitrile 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 Akxa Carbon, Mitsubishi Chemical, Aditya Birla Group, Formosa M, Japan Exlan Co., Ltd. (TOYOBO), Taekwang, Toray, Kaltex, Montefibre, Pasupati Acrylon, 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 Polyacrylonitrile Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (US\$/MT) 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 Polyacrylonitrile Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polyacrylonitrile Material Market, Segmentation by Type:

Acrylic Staple Fiber

Acrylic Tow

Acrylic Top

Global Polyacrylonitrile Material Market, Segmentation by Molecular Weight:

High Molecular Weight PAN

Medium Molecular Weight PAN

Low Molecular Weight PAN

Global Polyacrylonitrile Material Market, Segmentation by Sales:

Direct Sales

Distribution

Global Polyacrylonitrile Material Market, Segmentation by Application:

Textiles

Precursors to carbon fiber

Filtration

Outdoor

Fiber-reinforced concrete

Others

Companies Profiled:

Aksa Carbon

Mitsubishi Chemical

Aditya Birla Group

Formosa M

Japan Exlan Co., Ltd. (TOYOBO)

Taekwang

Toray

Kaltex

Montefibre

Pasupati Acrylon

SGL (Fisipe)

Sudamericana De Fibras

Indian Acrylics

Sinopec

Jilin Chemical Fiber

CNPC

Zhejiang Hangzhouwan

Ningbo Zhongxin Acrylic Fibers Co.,Ltd

Key Questions Answered:

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

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