

Global Polyacrylonitrile Market Growth 2026-2032

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Abstracts

The global Polyacrylonitrile market size is predicted to grow from US\$ 5122 million in 2025 to US\$ 6863 million in 2032; it is expected to grow at a CAGR of 4.1% 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 is a semicrystalline synthetic polymer resin (acrylic resin). Commonly abbreviated as PAN, Polyacrylonitrile's empirical formula is $(C_3H_4N)_n$. It is a hard rigid thermoplastic material that is resistant to most solvents and chemicals, slow to burn and has low permeability to gases. Polyacrylonitrile can also be carbonized for battery applications.

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 56%. And in terms of application, the largest application is Filtration, followed by Textiles, Fiber-reinforced concrete, carbon fiber, etc.

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?) 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 ?Polyacrylonitrile Industry Forecast? looks at past sales and reviews total world Polyacrylonitrile sales in 2025, providing a comprehensive analysis by region and market sector of projected Polyacrylonitrile sales for 2026 through 2032. With Polyacrylonitrile sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polyacrylonitrile industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Polyacrylonitrile 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 Polyacrylonitrile market?

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

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

How do Polyacrylonitrile market opportunities vary by end market size?

How does Polyacrylonitrile break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Polyacrylonitrile Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Polyacrylonitrile by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Polyacrylonitrile by Country/Region, 2021, 2025 & 2032
- 2.2 Polyacrylonitrile Segment by Type
 - 2.2.1 Acrylic Staple Fiber
 - 2.2.2 Acrylic Tow
 - 2.2.3 Others
 - 2.2.4 Polyacrylonitrile Sales by Type
 - 2.2.4.1 Global Polyacrylonitrile Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Polyacrylonitrile Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Polyacrylonitrile Sale Price by Type (2021-2026)
- 2.3 Polyacrylonitrile Segment by Polymerization Processes
 - 2.3.1 Solution Polymerization
 - 2.3.2 Aqueous Suspension Polymerization
 - 2.3.3 Emulsion Polymerization
 - 2.3.4 Polyacrylonitrile Sales by Polymerization Processes
 - 2.3.4.1 Global Polyacrylonitrile Sales Market Share by Polymerization Processes (2021-2026)
 - 2.3.4.2 Global Polyacrylonitrile Revenue and Market Share by Polymerization Processes (2021-2026)
 - 2.3.4.3 Global Polyacrylonitrile Sale Price by Polymerization Processes (2021-2026)

2.4 Polyacrylonitrile Segment by Copolymer Modification

2.4.1 Homopolymer PAN

2.4.2 Copolymer PAN

2.4.3 Polyacrylonitrile Sales by Copolymer Modification

2.4.3.1 Global Polyacrylonitrile Sales Market Share by Copolymer Modification (2021-2026)

2.4.3.2 Global Polyacrylonitrile Revenue and Market Share by Copolymer Modification (2021-2026)

2.4.3.3 Global Polyacrylonitrile Sale Price by Copolymer Modification (2021-2026)

2.5 Polyacrylonitrile Segment by Application

2.5.1 Textiles

2.5.2 Precursors to carbon fiber

2.5.3 Fiber-reinforced concrete

2.5.4 Others

2.5.5 Polyacrylonitrile Sales by Application

2.5.5.1 Global Polyacrylonitrile Sale Market Share by Application (2021-2026)

2.5.5.2 Global Polyacrylonitrile Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Polyacrylonitrile Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Polyacrylonitrile Breakdown Data by Company

3.1.1 Global Polyacrylonitrile Annual Sales by Company (2021-2026)

3.1.2 Global Polyacrylonitrile Sales Market Share by Company (2021-2026)

3.2 Global Polyacrylonitrile Annual Revenue by Company (2021-2026)

3.2.1 Global Polyacrylonitrile Revenue by Company (2021-2026)

3.2.2 Global Polyacrylonitrile Revenue Market Share by Company (2021-2026)

3.3 Global Polyacrylonitrile Sale Price by Company

3.4 Key Manufacturers Polyacrylonitrile Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Polyacrylonitrile Product Location Distribution

3.4.2 Players Polyacrylonitrile Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR POLYACRYLONITRILE BY GEOGRAPHIC REGION

- 4.1 World Historic Polyacrylonitrile Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Polyacrylonitrile Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Polyacrylonitrile Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Polyacrylonitrile Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Polyacrylonitrile Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Polyacrylonitrile Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Polyacrylonitrile Sales Growth
- 4.4 APAC Polyacrylonitrile Sales Growth
- 4.5 Europe Polyacrylonitrile Sales Growth
- 4.6 Middle East & Africa Polyacrylonitrile Sales Growth

5 AMERICAS

- 5.1 Americas Polyacrylonitrile Sales by Country
 - 5.1.1 Americas Polyacrylonitrile Sales by Country (2021-2026)
 - 5.1.2 Americas Polyacrylonitrile Revenue by Country (2021-2026)
- 5.2 Americas Polyacrylonitrile Sales by Type (2021-2026)
- 5.3 Americas Polyacrylonitrile Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Polyacrylonitrile Sales by Region
 - 6.1.1 APAC Polyacrylonitrile Sales by Region (2021-2026)
 - 6.1.2 APAC Polyacrylonitrile Revenue by Region (2021-2026)
- 6.2 APAC Polyacrylonitrile Sales by Type (2021-2026)
- 6.3 APAC Polyacrylonitrile Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Polyacrylonitrile by Country

7.1.1 Europe Polyacrylonitrile Sales by Country (2021-2026)

7.1.2 Europe Polyacrylonitrile Revenue by Country (2021-2026)

7.2 Europe Polyacrylonitrile Sales by Type (2021-2026)

7.3 Europe Polyacrylonitrile Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Polyacrylonitrile by Country

8.1.1 Middle East & Africa Polyacrylonitrile Sales by Country (2021-2026)

8.1.2 Middle East & Africa Polyacrylonitrile Revenue by Country (2021-2026)

8.2 Middle East & Africa Polyacrylonitrile Sales by Type (2021-2026)

8.3 Middle East & Africa Polyacrylonitrile Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Polyacrylonitrile

10.3 Manufacturing Process Analysis of Polyacrylonitrile

10.4 Industry Chain Structure of Polyacrylonitrile

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Polyacrylonitrile Distributors

11.3 Polyacrylonitrile Customer

12 WORLD FORECAST REVIEW FOR POLYACRYLONITRILE BY GEOGRAPHIC REGION

12.1 Global Polyacrylonitrile Market Size Forecast by Region

12.1.1 Global Polyacrylonitrile Forecast by Region (2027-2032)

12.1.2 Global Polyacrylonitrile Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Polyacrylonitrile Forecast by Type (2027-2032)

12.7 Global Polyacrylonitrile Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Aksa Carbon

13.1.1 Aksa Carbon Company Information

13.1.2 Aksa Carbon Polyacrylonitrile Product Portfolios and Specifications

13.1.3 Aksa Carbon Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Aksa Carbon Main Business Overview

13.1.5 Aksa Carbon Latest Developments

13.2 Mitsubishi Chemical

13.2.1 Mitsubishi Chemical Company Information

13.2.2 Mitsubishi Chemical Polyacrylonitrile Product Portfolios and Specifications

13.2.3 Mitsubishi Chemical Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Mitsubishi Chemical Main Business Overview

13.2.5 Mitsubishi Chemical Latest Developments

13.3 Aditya Birla Group

13.3.1 Aditya Birla Group Company Information

13.3.2 Aditya Birla Group Polyacrylonitrile Product Portfolios and Specifications

13.3.3 Aditya Birla Group Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Aditya Birla Group Main Business Overview

13.3.5 Aditya Birla Group Latest Developments

13.4 Formosa M

13.4.1 Formosa M Company Information

13.4.2 Formosa M Polyacrylonitrile Product Portfolios and Specifications

13.4.3 Formosa M Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Formosa M Main Business Overview

13.4.5 Formosa M Latest Developments

13.5 Japan Exlan

13.5.1 Japan Exlan Company Information

13.5.2 Japan Exlan Polyacrylonitrile Product Portfolios and Specifications

13.5.3 Japan Exlan Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Japan Exlan Main Business Overview

13.5.5 Japan Exlan Latest Developments

13.6 Taekwang

13.6.1 Taekwang Company Information

13.6.2 Taekwang Polyacrylonitrile Product Portfolios and Specifications

13.6.3 Taekwang Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Taekwang Main Business Overview

13.6.5 Taekwang Latest Developments

13.7 Toray

13.7.1 Toray Company Information

13.7.2 Toray Polyacrylonitrile Product Portfolios and Specifications

13.7.3 Toray Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Toray Main Business Overview

13.7.5 Toray Latest Developments

13.8 Kaltex

13.8.1 Kaltex Company Information

13.8.2 Kaltex Polyacrylonitrile Product Portfolios and Specifications

13.8.3 Kaltex Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Kaltex Main Business Overview

- 13.8.5 Kaltex Latest Developments
- 13.9 Pasupati Acrylon
 - 13.9.1 Pasupati Acrylon Company Information
 - 13.9.2 Pasupati Acrylon Polyacrylonitrile Product Portfolios and Specifications
 - 13.9.3 Pasupati Acrylon Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Pasupati Acrylon Main Business Overview
 - 13.9.5 Pasupati Acrylon Latest Developments
- 13.10 SGL Carbon
 - 13.10.1 SGL Carbon Company Information
 - 13.10.2 SGL Carbon Polyacrylonitrile Product Portfolios and Specifications
 - 13.10.3 SGL Carbon Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 SGL Carbon Main Business Overview
 - 13.10.5 SGL Carbon Latest Developments
- 13.11 Sudamericana De Fibras
 - 13.11.1 Sudamericana De Fibras Company Information
 - 13.11.2 Sudamericana De Fibras Polyacrylonitrile Product Portfolios and Specifications
 - 13.11.3 Sudamericana De Fibras Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Sudamericana De Fibras Main Business Overview
 - 13.11.5 Sudamericana De Fibras Latest Developments
- 13.12 Indian Acrylics
 - 13.12.1 Indian Acrylics Company Information
 - 13.12.2 Indian Acrylics Polyacrylonitrile Product Portfolios and Specifications
 - 13.12.3 Indian Acrylics Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Indian Acrylics Main Business Overview
 - 13.12.5 Indian Acrylics Latest Developments
- 13.13 Sinopec
 - 13.13.1 Sinopec Company Information
 - 13.13.2 Sinopec Polyacrylonitrile Product Portfolios and Specifications
 - 13.13.3 Sinopec Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Sinopec Main Business Overview
 - 13.13.5 Sinopec Latest Developments
- 13.14 Jilin Chemical Fiber
 - 13.14.1 Jilin Chemical Fiber Company Information

- 13.14.2 Jilin Chemical Fiber Polyacrylonitrile Product Portfolios and Specifications
- 13.14.3 Jilin Chemical Fiber Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.14.4 Jilin Chemical Fiber Main Business Overview
- 13.14.5 Jilin Chemical Fiber Latest Developments
- 13.15 CNPC
 - 13.15.1 CNPC Company Information
 - 13.15.2 CNPC Polyacrylonitrile Product Portfolios and Specifications
 - 13.15.3 CNPC Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 CNPC Main Business Overview
 - 13.15.5 CNPC Latest Developments
- 13.16 Ningbo Zhongxin Acrylic Fibers
 - 13.16.1 Ningbo Zhongxin Acrylic Fibers Company Information
 - 13.16.2 Ningbo Zhongxin Acrylic Fibers Polyacrylonitrile Product Portfolios and Specifications
 - 13.16.3 Ningbo Zhongxin Acrylic Fibers Polyacrylonitrile Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Ningbo Zhongxin Acrylic Fibers Main Business Overview
 - 13.16.5 Ningbo Zhongxin Acrylic Fibers Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Polyacrylonitrile Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Polyacrylonitrile Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Acrylic Staple Fiber

Table 4. Major Players of Acrylic Tow

Table 5. Major Players of Others

Table 6. Global Polyacrylonitrile Sales by Type (2021-2026) & (MT)

Table 7. Global Polyacrylonitrile Sales Market Share by Type (2021-2026)

Table 8. Global Polyacrylonitrile Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Polyacrylonitrile Revenue Market Share by Type (2021-2026)

Table 10. Global Polyacrylonitrile Sale Price by Type (2021-2026) & (USD/Kg)

Table 11. Major Players of Solution Polymerization

Table 12. Major Players of Aqueous Suspension Polymerization

Table 13. Major Players of Emulsion Polymerization

Table 14. Global Polyacrylonitrile Sales by Polymerization Processes (2021-2026) & (MT)

Table 15. Global Polyacrylonitrile Sales Market Share by Polymerization Processes (2021-2026)

Table 16. Global Polyacrylonitrile Revenue by Polymerization Processes (2021-2026) & (\$ million)

Table 17. Global Polyacrylonitrile Revenue Market Share by Polymerization Processes (2021-2026)

Table 18. Global Polyacrylonitrile Sale Price by Polymerization Processes (2021-2026) & (USD/Kg)

Table 19. Major Players of Homopolymer PAN

Table 20. Major Players of Copolymer PAN

Table 21. Global Polyacrylonitrile Sales by Copolymer Modification (2021-2026) & (MT)

Table 22. Global Polyacrylonitrile Sales Market Share by Copolymer Modification (2021-2026)

Table 23. Global Polyacrylonitrile Revenue by Copolymer Modification (2021-2026) & (\$ million)

Table 24. Global Polyacrylonitrile Revenue Market Share by Copolymer Modification (2021-2026)

Table 25. Global Polyacrylonitrile Sale Price by Copolymer Modification (2021-2026) &

(USD/Kg)

Table 26. Global Polyacrylonitrile Sale by Application (2021-2026) & (MT)

Table 27. Global Polyacrylonitrile Sale Market Share by Application (2021-2026)

Table 28. Global Polyacrylonitrile Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Polyacrylonitrile Revenue Market Share by Application (2021-2026)

Table 30. Global Polyacrylonitrile Sale Price by Application (2021-2026) & (USD/Kg)

Table 31. Global Polyacrylonitrile Sales by Company (2021-2026) & (MT)

Table 32. Global Polyacrylonitrile Sales Market Share by Company (2021-2026)

Table 33. Global Polyacrylonitrile Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Polyacrylonitrile Revenue Market Share by Company (2021-2026)

Table 35. Global Polyacrylonitrile Sale Price by Company (2021-2026) & (USD/Kg)

Table 36. Key Manufacturers Polyacrylonitrile Producing Area Distribution and Sales Area

Table 37. Players Polyacrylonitrile Products Offered

Table 38. Polyacrylonitrile Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Polyacrylonitrile Sales by Geographic Region (2021-2026) & (MT)

Table 42. Global Polyacrylonitrile Sales Market Share Geographic Region (2021-2026)

Table 43. Global Polyacrylonitrile Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Polyacrylonitrile Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Polyacrylonitrile Sales by Country/Region (2021-2026) & (MT)

Table 46. Global Polyacrylonitrile Sales Market Share by Country/Region (2021-2026)

Table 47. Global Polyacrylonitrile Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Polyacrylonitrile Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Polyacrylonitrile Sales by Country (2021-2026) & (MT)

Table 50. Americas Polyacrylonitrile Sales Market Share by Country (2021-2026)

Table 51. Americas Polyacrylonitrile Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Polyacrylonitrile Sales by Type (2021-2026) & (MT)

Table 53. Americas Polyacrylonitrile Sales by Application (2021-2026) & (MT)

Table 54. APAC Polyacrylonitrile Sales by Region (2021-2026) & (MT)

Table 55. APAC Polyacrylonitrile Sales Market Share by Region (2021-2026)

Table 56. APAC Polyacrylonitrile Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Polyacrylonitrile Sales by Type (2021-2026) & (MT)

Table 58. APAC Polyacrylonitrile Sales by Application (2021-2026) & (MT)

Table 59. Europe Polyacrylonitrile Sales by Country (2021-2026) & (MT)
Table 60. Europe Polyacrylonitrile Revenue by Country (2021-2026) & (\$ millions)
Table 61. Europe Polyacrylonitrile Sales by Type (2021-2026) & (MT)
Table 62. Europe Polyacrylonitrile Sales by Application (2021-2026) & (MT)
Table 63. Middle East & Africa Polyacrylonitrile Sales by Country (2021-2026) & (MT)
Table 64. Middle East & Africa Polyacrylonitrile Revenue Market Share by Country (2021-2026)
Table 65. Middle East & Africa Polyacrylonitrile Sales by Type (2021-2026) & (MT)
Table 66. Middle East & Africa Polyacrylonitrile Sales by Application (2021-2026) & (MT)
Table 67. Key Market Drivers & Growth Opportunities of Polyacrylonitrile
Table 68. Key Market Challenges & Risks of Polyacrylonitrile
Table 69. Key Industry Trends of Polyacrylonitrile
Table 70. Polyacrylonitrile Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. Polyacrylonitrile Distributors List
Table 73. Polyacrylonitrile Customer List
Table 74. Global Polyacrylonitrile Sales Forecast by Region (2027-2032) & (MT)
Table 75. Global Polyacrylonitrile Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas Polyacrylonitrile Sales Forecast by Country (2027-2032) & (MT)
Table 77. Americas Polyacrylonitrile Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. APAC Polyacrylonitrile Sales Forecast by Region (2027-2032) & (MT)
Table 79. APAC Polyacrylonitrile Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Europe Polyacrylonitrile Sales Forecast by Country (2027-2032) & (MT)
Table 81. Europe Polyacrylonitrile Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Middle East & Africa Polyacrylonitrile Sales Forecast by Country (2027-2032) & (MT)
Table 83. Middle East & Africa Polyacrylonitrile Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Global Polyacrylonitrile Sales Forecast by Type (2027-2032) & (MT)
Table 85. Global Polyacrylonitrile Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 86. Global Polyacrylonitrile Sales Forecast by Application (2027-2032) & (MT)
Table 87. Global Polyacrylonitrile Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 88. Aksa Carbon Basic Information, Polyacrylonitrile Manufacturing Base, Sales

Area and Its Competitors

Table 89. Aksa Carbon Polyacrylonitrile Product Portfolios and Specifications

Table 90. Aksa Carbon Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 91. Aksa Carbon Main Business

Table 92. Aksa Carbon Latest Developments

Table 93. Mitsubishi Chemical Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 94. Mitsubishi Chemical Polyacrylonitrile Product Portfolios and Specifications

Table 95. Mitsubishi Chemical Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 96. Mitsubishi Chemical Main Business

Table 97. Mitsubishi Chemical Latest Developments

Table 98. Aditya Birla Group Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 99. Aditya Birla Group Polyacrylonitrile Product Portfolios and Specifications

Table 100. Aditya Birla Group Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 101. Aditya Birla Group Main Business

Table 102. Aditya Birla Group Latest Developments

Table 103. Formosa M Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 104. Formosa M Polyacrylonitrile Product Portfolios and Specifications

Table 105. Formosa M Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 106. Formosa M Main Business

Table 107. Formosa M Latest Developments

Table 108. Japan Exlan Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 109. Japan Exlan Polyacrylonitrile Product Portfolios and Specifications

Table 110. Japan Exlan Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 111. Japan Exlan Main Business

Table 112. Japan Exlan Latest Developments

Table 113. Taekwang Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 114. Taekwang Polyacrylonitrile Product Portfolios and Specifications

Table 115. Taekwang Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 116. Taekwang Main Business

Table 117. Taekwang Latest Developments

Table 118. Toray Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 119. Toray Polyacrylonitrile Product Portfolios and Specifications

Table 120. Toray Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 121. Toray Main Business

Table 122. Toray Latest Developments

Table 123. Kaltex Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 124. Kaltex Polyacrylonitrile Product Portfolios and Specifications

Table 125. Kaltex Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 126. Kaltex Main Business

Table 127. Kaltex Latest Developments

Table 128. Pasupati Acrylon Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 129. Pasupati Acrylon Polyacrylonitrile Product Portfolios and Specifications

Table 130. Pasupati Acrylon Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 131. Pasupati Acrylon Main Business

Table 132. Pasupati Acrylon Latest Developments

Table 133. SGL Carbon Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 134. SGL Carbon Polyacrylonitrile Product Portfolios and Specifications

Table 135. SGL Carbon Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 136. SGL Carbon Main Business

Table 137. SGL Carbon Latest Developments

Table 138. Sudamericana De Fibras Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 139. Sudamericana De Fibras Polyacrylonitrile Product Portfolios and Specifications

Table 140. Sudamericana De Fibras Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 141. Sudamericana De Fibras Main Business

Table 142. Sudamericana De Fibras Latest Developments

Table 143. Indian Acrylics Basic Information, Polyacrylonitrile Manufacturing Base,

Sales Area and Its Competitors

Table 144. Indian Acrylics Polyacrylonitrile Product Portfolios and Specifications

Table 145. Indian Acrylics Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 146. Indian Acrylics Main Business

Table 147. Indian Acrylics Latest Developments

Table 148. Sinopec Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 149. Sinopec Polyacrylonitrile Product Portfolios and Specifications

Table 150. Sinopec Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 151. Sinopec Main Business

Table 152. Sinopec Latest Developments

Table 153. Jilin Chemical Fiber Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 154. Jilin Chemical Fiber Polyacrylonitrile Product Portfolios and Specifications

Table 155. Jilin Chemical Fiber Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 156. Jilin Chemical Fiber Main Business

Table 157. Jilin Chemical Fiber Latest Developments

Table 158. CNPC Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 159. CNPC Polyacrylonitrile Product Portfolios and Specifications

Table 160. CNPC Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 161. CNPC Main Business

Table 162. CNPC Latest Developments

Table 163. Ningbo Zhongxin Acrylic Fibers Basic Information, Polyacrylonitrile Manufacturing Base, Sales Area and Its Competitors

Table 164. Ningbo Zhongxin Acrylic Fibers Polyacrylonitrile Product Portfolios and Specifications

Table 165. Ningbo Zhongxin Acrylic Fibers Polyacrylonitrile Sales (MT), Revenue (\$ Million), Price (USD/Kg) and Gross Margin (2021-2026)

Table 166. Ningbo Zhongxin Acrylic Fibers Main Business

Table 167. Ningbo Zhongxin Acrylic Fibers Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Polyacrylonitrile
- Figure 2. Polyacrylonitrile Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Polyacrylonitrile Sales Growth Rate 2021-2032 (MT)
- Figure 7. Global Polyacrylonitrile Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Polyacrylonitrile Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Polyacrylonitrile Sales Market Share by Country/Region (2025)
- Figure 10. Polyacrylonitrile Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Acrylic Staple Fiber
- Figure 12. Product Picture of Acrylic Tow
- Figure 13. Product Picture of Others
- Figure 14. Global Polyacrylonitrile Sales Market Share by Type in 2026
- Figure 15. Global Polyacrylonitrile Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Solution Polymerization
- Figure 17. Product Picture of Aqueous Suspension Polymerization
- Figure 18. Product Picture of Emulsion Polymerization
- Figure 19. Global Polyacrylonitrile Sales Market Share by Polymerization Processes in 2026
- Figure 20. Global Polyacrylonitrile Revenue Market Share by Polymerization Processes (2021-2026)
- Figure 21. Product Picture of Homopolymer PAN
- Figure 22. Product Picture of Copolymer PAN
- Figure 23. Global Polyacrylonitrile Sales Market Share by Copolymer Modification in 2026
- Figure 24. Global Polyacrylonitrile Revenue Market Share by Copolymer Modification (2021-2026)
- Figure 25. Polyacrylonitrile Consumed in Textiles
- Figure 26. Global Polyacrylonitrile Market: Textiles (2021-2026) & (MT)
- Figure 27. Polyacrylonitrile Consumed in Precursors to carbon fiber
- Figure 28. Global Polyacrylonitrile Market: Precursors to carbon fiber (2021-2026) & (MT)
- Figure 29. Polyacrylonitrile Consumed in Fiber-reinforced concrete

Figure 30. Global Polyacrylonitrile Market: Fiber-reinforced concrete (2021-2026) & (MT)

Figure 31. Polyacrylonitrile Consumed in Others

Figure 32. Global Polyacrylonitrile Market: Others (2021-2026) & (MT)

Figure 33. Global Polyacrylonitrile Sales Market Share by Application (2025)

Figure 34. Global Polyacrylonitrile Revenue Market Share by Application in 2025

Figure 35. Polyacrylonitrile Sales by Company in 2025 (MT)

Figure 36. Global Polyacrylonitrile Sales Market Share by Company in 2025

Figure 37. Polyacrylonitrile Revenue by Company in 2025 (\$ millions)

Figure 38. Global Polyacrylonitrile Revenue Market Share by Company in 2025

Figure 39. Global Polyacrylonitrile Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global Polyacrylonitrile Revenue Market Share by Geographic Region in 2025

Figure 41. Americas Polyacrylonitrile Sales 2021-2026 (MT)

Figure 42. Americas Polyacrylonitrile Revenue 2021-2026 (\$ millions)

Figure 43. APAC Polyacrylonitrile Sales 2021-2026 (MT)

Figure 44. APAC Polyacrylonitrile Revenue 2021-2026 (\$ millions)

Figure 45. Europe Polyacrylonitrile Sales 2021-2026 (MT)

Figure 46. Europe Polyacrylonitrile Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Polyacrylonitrile Sales 2021-2026 (MT)

Figure 48. Middle East & Africa Polyacrylonitrile Revenue 2021-2026 (\$ millions)

Figure 49. Americas Polyacrylonitrile Sales Market Share by Country in 2025

Figure 50. Americas Polyacrylonitrile Revenue Market Share by Country (2021-2026)

Figure 51. Americas Polyacrylonitrile Sales Market Share by Type (2021-2026)

Figure 52. Americas Polyacrylonitrile Sales Market Share by Application (2021-2026)

Figure 53. United States Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Polyacrylonitrile Sales Market Share by Region in 2025

Figure 58. APAC Polyacrylonitrile Revenue Market Share by Region (2021-2026)

Figure 59. APAC Polyacrylonitrile Sales Market Share by Type (2021-2026)

Figure 60. APAC Polyacrylonitrile Sales Market Share by Application (2021-2026)

Figure 61. China Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)

- Figure 66. Australia Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 67. China Taiwan Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Europe Polyacrylonitrile Sales Market Share by Country in 2025
- Figure 69. Europe Polyacrylonitrile Revenue Market Share by Country (2021-2026)
- Figure 70. Europe Polyacrylonitrile Sales Market Share by Type (2021-2026)
- Figure 71. Europe Polyacrylonitrile Sales Market Share by Application (2021-2026)
- Figure 72. Germany Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 73. France Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 74. UK Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Italy Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Russia Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Middle East & Africa Polyacrylonitrile Sales Market Share by Country (2021-2026)
- Figure 78. Middle East & Africa Polyacrylonitrile Sales Market Share by Type (2021-2026)
- Figure 79. Middle East & Africa Polyacrylonitrile Sales Market Share by Application (2021-2026)
- Figure 80. Egypt Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 81. South Africa Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Israel Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Turkey Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 84. GCC Countries Polyacrylonitrile Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Manufacturing Cost Structure Analysis of Polyacrylonitrile in 2026
- Figure 86. Manufacturing Process Analysis of Polyacrylonitrile
- Figure 87. Industry Chain Structure of Polyacrylonitrile
- Figure 88. Channels of Distribution
- Figure 89. Global Polyacrylonitrile Sales Market Forecast by Region (2027-2032)
- Figure 90. Global Polyacrylonitrile Revenue Market Share Forecast by Region (2027-2032)
- Figure 91. Global Polyacrylonitrile Sales Market Share Forecast by Type (2027-2032)
- Figure 92. Global Polyacrylonitrile Revenue Market Share Forecast by Type (2027-2032)
- Figure 93. Global Polyacrylonitrile Sales Market Share Forecast by Application (2027-2032)
- Figure 94. Global Polyacrylonitrile Revenue Market Share Forecast by Application (2027-2032)

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