

Global High Expansion Acrylic Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Expansion Acrylic Fiber market size is expected to reach \$ 859 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

High-expansion acrylic fibers are a class of functional acrylic fibers that undergo significant volume expansion and a crimped, fluffy structure under heat treatment or specific operating conditions through formulation copolymerization and post-treatment processes. Their core value lies in enhancing thermal insulation, filling resilience, and sound absorption/buffering properties. They are commonly found in short-fiber form in nonwoven, filling, and functional textile systems. Global sales of high-expansion acrylic fibers are projected to reach approximately 220,000 tons in 2025, with an average price of approximately US\$2,450 per ton. The industry's average capacity utilization rate is estimated at 78%, and the overall gross profit margin is approximately 19%. Upstream companies are primarily located in the fields of acrylonitrile and comonomers (petrochemical raw materials), solvents and auxiliaries, spinning oils, polymerization and spinning equipment, fiber-grade quality control and testing, and energy and public works. Midstream companies are acrylic fiber production and finishing processing enterprises. Downstream companies cover industries such as flame-retardant and heat-insulating filling materials, thermal insulation felts and filter materials, home textile fillings and bedding, industrial wiping and adsorption materials, and automotive interior sound-absorbing and buffering materials. The product cost structure typically consists of raw material costs such as acrylonitrile and comonomers, solvent and additive consumption, energy consumption and steam/water treatment, equipment depreciation and maintenance, labor and manufacturing costs, post-processing heat treatment costs, and packaging, logistics, and quality certification costs, with raw materials and energy consumption accounting for the largest combined proportion. On the demand side, downstream demand includes building and pipe insulation materials, flame-retardant

fillers and insulation felts, filter media, home textile filling cotton, automotive sound-absorbing and cushioning materials, and industrial wiping and adsorption materials. Downstream customers include nonwoven fabric and filter material manufacturers, flame-retardant insulation material manufacturers, home textile and filling material manufacturers, automotive interior supply chain companies, and industrial product brand owners and distributors. In terms of business opportunities, policy drivers include increasingly stringent requirements for building energy conservation, green building, and fire safety, as well as upgrades to public safety and industrial protection standards. Technological innovation is reflected in higher expansion ratios, more stable crimp retention, lower odor and cleaner solvent recovery processes, and synergistic design with flame-retardant and composite material systems. Changes in consumer demand are reflected in the increased demand for lighter, warmer, safer, flame-retardant, more durable, and easier-to-care-for home and outdoor products, thereby driving the continued increase in the penetration rate of high-expansion acrylic fibers in the fields of thermal insulation filling, sound absorption cushioning, and functional nonwovens.

The high-expansion acrylic fiber market is expanding from traditional filling and insulation applications to functional and industrial applications. Demand growth is no longer solely reliant on consumer sectors like home textiles, but is increasingly driven by rising requirements for building energy efficiency, industrial insulation, automotive sound absorption, and flame retardant safety. As downstream demands for lightweight materials, bulk stability, and long-term durability increase, manufacturers with high expansion ratios, consistent control, and clean production capabilities are gaining a competitive edge, while low-end, homogeneous products face price pressure. Overall, the high-expansion acrylic fiber industry is characterized by stable demand with a slight upward trend, and product structure upgrades outpacing overall growth. Future market share will concentrate on companies with deep technological accumulation, strong customer loyalty, and the ability to collaborate with downstream functional systems. This report studies the global High Expansion Acrylic Fiber production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Expansion Acrylic Fiber total production and demand, 2021-2032, (Tons)
Global High Expansion Acrylic Fiber total production value, 2021-2032, (USD Million)
Global High Expansion Acrylic Fiber production by region & country, production, value,

CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Expansion Acrylic Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Expansion Acrylic Fiber domestic production, consumption, key domestic manufacturers and share

Global High Expansion Acrylic Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Expansion Acrylic Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Expansion Acrylic Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Expansion Acrylic 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 TOYOBO, Precisiontex, Kaneka, Sinopec Shanghai Petrochemical Company, Jilin Chemical Fibre, Formosa Plastics Corporation, Kaltex Fibers, Toray, DOLAN GmbH, SDF Group, 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 High Expansion Acrylic Fiber market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Expansion Acrylic Fiber Market, Segmentation by Type:

1D-2D(Denier)

2D-5D(Denier)

5D-6D(Denier)

Global High Expansion Acrylic Fiber Market, Segmentation by Expansion Factor:

Expansion Ratio: 2-3 Times

Expansion Ratio: Above 3 Times

Global High Expansion Acrylic Fiber Market, Segmentation by Modification Method:

Co Polymerized High Expansion Acrylic Fiber

Modified High Expansion Acrylic Fiber

Global High Expansion Acrylic Fiber Market, Segmentation by Application:

Garment Industry

Industrial Textiles

Others

Companies Profiled:

TOYOBO

Precisiontex

Kaneka

Sinopec Shanghai Petrochemical Company

Jilin Chemical Fibre

Formosa Plastics Corporation

Kaltex Fibers

Toray

DOLAN GmbH

SDF Group

Yousuf Dewan

Key Questions Answered:

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

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