

Global Polymer Aerogel Foam Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polymer Aerogel Foam market size is expected to reach \$ 811 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

Polymer Aerogel Foam is an ultralight, highly porous solid material derived from polymer networks (such as polyimide, polyurethane, phenolic, or resorcinol–formaldehyde systems) in which the liquid component of a gel is replaced with gas while preserving the three-dimensional structure, resulting in extremely low density, high surface area, and excellent thermal, acoustic, and mechanical insulation properties. Its supply chain begins with upstream petrochemical or bio-based monomers (e.g., isocyanates, epoxies, formaldehyde derivatives), followed by midstream polymerization and gelation processes to form wet gels, then advanced drying techniques such as supercritical drying or ambient pressure drying to create aerogel structures, often combined with reinforcement (fibers, foams, or composites) to improve strength and flexibility. Downstream, the material is processed into panels, blankets, or molded foam components and supplied to end-use industries including aerospace, electric vehicles, construction insulation, oil & gas pipelines, and high-performance electronics, where lightweight and high-efficiency thermal management are critical. In 2025, global Polymer Aerogel Foam output was about 12,000 tons with 16,000 tons of capacity, average prices of USD 25,000–60,000 per ton, and gross margins around 37%.

This report studies the global Polymer Aerogel Foam production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Polymer Aerogel Foam total production and demand, 2021-2032, (Tons)

Global Polymer Aerogel Foam total production value, 2021-2032, (USD Million)

Global Polymer Aerogel Foam production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Polymer Aerogel Foam consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Polymer Aerogel Foam domestic production, consumption, key domestic manufacturers and share

Global Polymer Aerogel Foam production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Polymer Aerogel Foam production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Polymer Aerogel Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Polymer Aerogel Foam 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 Aspen Aerogels (USA), Blueshift Materials (USA), Active Aerogels (Portugal), Armacell (Luxembourg), Enersens (France), Svenska Aerogel (Sweden), Guangdong Alison Hi-Tech (China), Zhejiang UGOO Technology (China), IBIH Advanced Materials (China), Ningbo Surnano Aerogel (China), 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 Polymer Aerogel Foam 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 Polymer Aerogel Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polymer Aerogel Foam Market, Segmentation by Type:

Flexible Foam

Semi-rigid Foam

Rigid Foam

Global Polymer Aerogel Foam Market, Segmentation by Density:

5–20 kg/m³

20–80 kg/m³

80–200 kg/m³

200–500 kg/m?

Global Polymer Aerogel Foam Market, Segmentation by Application:

Construction

Petrochemical

Battery Insulation

Cold Chain Logistic

Aerospace & Defense

Others

Companies Profiled:

Aspen Aerogels (USA)

Blueshift Materials (USA)

Active Aerogels (Portugal)

Armacell (Luxembourg)

Enersens (France)

Svenska Aerogel (Sweden)

Guangdong Alison Hi-Tech (China)

Zhejiang UGOO Technology (China)

IBIH Advanced Materials (China)

Ningbo Surnano Aerogel (China)

Namate New Materials Technology (China)

Key Questions Answered:

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

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