

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

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Abstracts

The global Aerogel Foam market size is expected to reach \$ 3330 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

Aerogel Foam is a lightweight, highly porous insulating material that combines the nano-porous structure of aerogel with the flexibility and mechanical resilience of polymeric foam, resulting in extremely low thermal conductivity, low density, and good compressibility. It is widely used in thermal insulation, energy systems, and advanced industrial applications where both insulation performance and mechanical durability are required. The supply chain of aerogel foam begins upstream with raw materials such as silica precursors (e.g., sodium silicate or TEOS), polymer resins (e.g., polyurethane or polyimide), solvents, and additives; these are processed through sol-gel chemistry to form wet gels, followed by aging, surface modification, and drying (often via supercritical or ambient pressure drying) to create aerogel particles or blankets. Midstream manufacturing integrates these aerogel structures into foam matrices through impregnation, compounding, or hybrid foaming processes to enhance flexibility and strength. Downstream, the finished aerogel foam products are supplied to industries such as building & construction (thermal insulation panels), oil & gas (pipeline insulation), electric vehicles and batteries (thermal management), aerospace (lightweight insulation), and cold chain logistics, with distribution handled by specialty material suppliers and OEM-focused industrial channels. In 2025, global Aerogel Foam output was about 60,000 tons with 80,000 tons of capacity, average prices of USD 20,000–50,000 per ton, and gross margins around 37%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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 Aerogel Foam market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Kilotons) 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 Aerogel Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerogel Foam Market, Segmentation by Type:

Silica Aerogel Foam

Polymer Aerogel Foam

Carbon Aerogel Foam

Global Aerogel Foam Market, Segmentation by Density:

10–50 kg/m³

50–150 kg/m³

150–300 kg/m?

300–800 kg/m?

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

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