

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

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Abstracts

The global Aerogel Insulation Foam market size is expected to reach \$ 3768 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Aerogel Insulation Foam is a composite thermal insulation material that combines the ultra-low thermal conductivity and nanoporous structure of aerogel (typically silica aerogel) with a foam matrix such as polyurethane, phenolic, or elastomeric polymers to improve mechanical strength, flexibility, and processability; it is widely used in applications requiring high-performance insulation under space, weight, or extreme temperature constraints. The supply chain begins with upstream raw materials including silica precursors (e.g., sodium silicate or TEOS), polymer resins, catalysts, and solvents, followed by midstream production involving sol-gel synthesis of aerogel, aging, solvent exchange, and drying processes (supercritical or ambient pressure drying), after which the aerogel is integrated or infused into foam structures via compounding or composite fabrication techniques; downstream, the material is converted into panels, blankets, sprays, or molded foam parts and distributed to end-use sectors such as building insulation, oil & gas pipelines, aerospace, automotive thermal management, and industrial equipment, typically through insulation system integrators, OEMs, and engineering contractors. In 2025, global Aerogel Insulation Foam output was about 65,000 tons with 85,000 tons of capacity, average prices of USD 20,000–50,000 per ton, and gross margins around 36%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Aerogel Insulation 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), Armacell (Luxembourg), Aerogel Technologies (USA), Svenska Aerogel (Sweden), Enersens (France), High Tech Material Solutions (USA), JIOS Aerogel (Singapore), KEEY Aerogel (France), Zhejiang UGOO Technology (China), IBIH Advanced Materials (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 Insulation 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 Aerogel Insulation Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerogel Insulation Foam Market, Segmentation by Type:

Silica Aerogel Foam

Polymer Aerogel Foam

Carbon Aerogel Foam

Metal Oxide Aerogel Foam

Global Aerogel Insulation Foam Market, Segmentation by Thermal Conductivity:

0.020 – 0.035

> 0.035

Global Aerogel Insulation Foam Market, Segmentation by Application:

Construction

Oil & Gas

Electric Vehicle

Aerospace & Defense

Industrial Equipment

Others

Companies Profiled:

Aspen Aerogels (USA)

Armacell (Luxembourg)

Aerogel Technologies (USA)

Svenska Aerogel (Sweden)

Enersens (France)

High Tech Material Solutions (USA)

JIOS Aerogel (Singapore)

KEEY Aerogel (France)

Zhejiang UGOO Technology (China)

IBIH Advanced Materials (China)

Ningbo Surnano Aerogel (China)

Key Questions Answered:

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

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