

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

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Abstracts

The global Aerogel Building Insulation Board market size is expected to reach \$ 229 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

Aerogel building insulation panels are thin construction panels using silica aerogel blankets, powders, or granules as the core insulating material, often combined with inorganic fibers, fiberglass mats, gypsum boards, magnesium boards, siliceous binders, or decorative surfaces. They are mainly used for thermal insulation in interior and exterior walls, roofs, floors, and thermal bridge nodes. The estimated gross margin is approximately 38%.

This market remains a high-performance niche within building energy-saving materials. Its scale is significantly smaller than mineral wool, EPS, XPS, or polyurethane panels, but it offers substitution value in space-constrained, high-fire-safety, high-humidity, and historic building renovation scenarios. Due to the high unit price, aerogel panels are unlikely to be widely used in ordinary new residential construction; they are prioritized for retrofitting insulation in existing buildings, passive house nodes, thin-layer exterior wall renovations, basements, and window openings where space and thermal bridge control are critical.

Current market growth is mainly driven by energy-saving retrofits in European existing buildings, green building projects in China, and near-zero-energy building initiatives, along with manufacturers further standardizing aerogel blankets, granules, and inorganic binder systems into panelized solutions. Competitive focus includes not only thermal conductivity but also A1/A2 fire ratings, installation dust control, water absorption, compressive strength, and compatibility with mortar and finishing systems

certifications.

The industry is expected to maintain double-digit growth in the future, but the pace of volume adoption will depend on cost reductions and engineering certification speed. Even when measured solely by the building insulation panel category, this remains a small but high-margin specialty materials market.

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

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

Highlights and key features of the study

Global Aerogel Building Insulation Board total production and demand, 2021-2032, (K Sqm)

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

Global Aerogel Building Insulation Board production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Aerogel Building Insulation Board consumption by region & country, CAGR, 2021-2032 & (K Sqm)

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

Global Aerogel Building Insulation Board production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Aerogel Building Insulation Board production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Aerogel Building Insulation Board production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Aerogel Building Insulation Board 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 A. Proctor Group, Thermablok Aerogels, AGITEC, Sto, Guangdong Alison, IBIH, Agel-Tech, AerogelZone, Hebei

Woqin, Ningbo Surnano, 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 Building Insulation Board market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Building Insulation Board Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerogel Building Insulation Board Market, Segmentation by Type:

Aerogel Fiber-Reinforced Rigid Board

Aerogel Particle Molded Board

Aerogel Plasterboard Laminate

Aerogel MgO Composite Board

Aerogel Decorative Integrated Board

Aerogel VIP Composite Board

Other Aerogel Building Board

Global Aerogel Building Insulation Board Market, Segmentation by Thermal Conductivity:

Ultra-Low Conductivity ≤ 0.018 W/(m·K)

High-Performance Conductivity > 0.018 to ≤ 0.025 W/(m·K)

Standard Conductivity > 0.025 to ≤ 0.035 W/(m·K)

Composite Conductivity > 0.035 to ≤ 0.050 W/(m·K)

Other Conductivity Grade

Global Aerogel Building Insulation Board Market, Segmentation by Fire Rating:

A1 Non-Combustible

A2 Non-Combustible

B1 Flame-Retardant

Other Fire Rating

Global Aerogel Building Insulation Board Market, Segmentation by Board Thickness:

~10 mm Ultra-Thin Board

>10 to ~20 mm Thin Board

>20 to ~40 mm Standard Board

>40 to ~60 mm Thick Board

>60 mm Custom Thick Board

Global Aerogel Building Insulation Board Market, Segmentation by Application:

Internal Wall Insulation

External Wall Insulation

Roof and Attic Insulation

Floor and Ceiling Insulation

Facade Integrated Panels

Thermal Bridge Detail Treatment

Other Building Applications

Companies Profiled:

A. Proctor Group

Thermablok Aerogels

AGITEC

Sto

Guangdong Alison

IBIH

Agel-Tech

AerogelZone

Hebei Woqin

Ningbo Surnano

Key Questions Answered:

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

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