

Global Aerogel Building Insulation Board Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Aerogel Building Insulation Board market size was valued at US\$ 101 million in 2025 and is forecast to a readjusted size of US\$ 229 million by 2032 with a CAGR of 12.3% during review period.

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 is a detailed and comprehensive analysis for global Aerogel Building Insulation Board market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aerogel Building Insulation Board market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Building Insulation Board market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Building Insulation Board market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Building Insulation Board market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aerogel Building Insulation Board

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aerogel Building Insulation Board market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Aerogel Building Insulation Board market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment 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

Market segment by Fire Rating

A1 Non-Combustible

A2 Non-Combustible

B1 Flame-Retardant

Other Fire Rating

Market segment 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

Market segment 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

Major players covered

A. Proctor Group

Thermablok Aerogels

AGITEC

Sto

Guangdong Alison

IBIH

Agel-Tech

AerogelZone

Hebei Woqin

Ningbo Surnano

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aerogel Building Insulation Board product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aerogel Building Insulation Board, with price, sales quantity, revenue, and global market share of Aerogel Building Insulation Board from 2021 to 2026.

Chapter 3, the Aerogel Building Insulation Board competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aerogel Building Insulation Board breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aerogel Building Insulation Board market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five

Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aerogel Building Insulation Board.

Chapter 14 and 15, to describe Aerogel Building Insulation Board sales channel, distributors, customers, research findings and conclusion.

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