

Global High Performance Aerogel Blankets Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Performance Aerogel Blankets market size is expected to reach \$ 468 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global high-performance aerogel blanket production reached approximately 11803 k sqm, the average price is 22 usd/sqm. High-performance aerogel blanket is a flexible or semi-flexible ultra-insulating blanket-like product made by combining nanoporous aerogel as the core insulation material with a fiber-reinforced matrix (such as glass fiber, ceramic fiber or pre-oxidized filament) through a special process.

Market Concentration and Major Players:

Internationally, the market for high-performance aerogel felt is highly concentrated, mainly in developed countries such as Europe and the United States. Large manufacturers include Aerogel-it and Cabot Corporation. Domestically, however, there is still significant room for growth in the high-performance aerogel felt market.

Manufacturing Process and Market Trends:

The manufacturing process involves the hydrolysis and condensation of silicon sources to form a sol, which is then impregnated with a fiber substrate, gelled, and aged. The pore liquid is removed via supercritical or atmospheric pressure drying to produce a nanoporous composite felt, further enhanced with hydrophobic and flexibility modifications.

Market trends are driven by energy conservation and carbon reduction policies and new

energy safety requirements. Demand is shifting towards high-end applications such as thermal runaway protection for power batteries and cryogenic insulation. Product iteration focuses on thin, high-strength, low-dust, and multifunctional composite materials. Simultaneously, the widespread adoption of low-cost green processes such as atmospheric pressure drying is accelerating the large-scale replacement of traditional materials and promoting the improvement of industry standards and customized solutions.

This report studies the global High Performance Aerogel Blankets production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global High Performance Aerogel Blankets total production and demand, 2021-2032, (K Sqm)

Global High Performance Aerogel Blankets total production value, 2021-2032, (USD Million)

Global High Performance Aerogel Blankets production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global High Performance Aerogel Blankets consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: High Performance Aerogel Blankets domestic production, consumption, key domestic manufacturers and share

Global High Performance Aerogel Blankets production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global High Performance Aerogel Blankets production by Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global High Performance Aerogel Blankets production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global High Performance Aerogel Blankets 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), Cabot Corporation (USA), Aerogel Technologies (USA), Aerogel-it (Germany), Nano Tech (China), Active Aerogels (Portugal), Enersens (France), Armacell (Luxembourg), Shenzhen Aerogel Technology (China), IBIH (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 High Performance Aerogel Blankets 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 Thickness, 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 High Performance Aerogel Blankets Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Performance Aerogel Blankets Market, Segmentation by Thickness:

Below 5mm Thickness

5mm to 10mm Thickness

Above 10mm Thickness

Global High Performance Aerogel Blankets Market, Segmentation by Materials:

Silica Aerogel Blanket

Carbon Aerogel Blanket

Alumina Aerogel Blanket

Composite Aerogel Blanket

Global High Performance Aerogel Blankets Market, Segmentation by Structure:

Single-layer Aerogel Blanket

Aluminum Foil Laminated Aerogel Blanket

Fiberglass Cloth Laminated Aerogel Blanket

Others

Global High Performance Aerogel Blankets Market, Segmentation by Application:

Construction

Oil & Gas

Aerospace & Defence

Others

Companies Profiled:

Aspen Aerogels (USA)

Cabot Corporation (USA)

Aerogel Technologies (USA)

Aerogel-it (Germany)

Nano Tech (China)

Active Aerogels (Portugal)

Enersens (France)

Armacell (Luxembourg)

Shenzhen Aerogel Technology (China)

IBIH (China)

Jinna Tech (China)

Alkegen (USA)

AMA Aerogel (Turkey)

Thermablok Aerogels (UK)

DashamLabs (India)

Wedge India (India)

Taiwan Aerogel Technology Materials (Taiwan)

LFJ Group (Taiwan)

Key Questions Answered:

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

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