

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

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Abstracts

The global Aerogel Insulation Film market size is expected to reach \$ 481 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, global aerogel insulation film production reached approximately 1271 k sqm, the average price is 260 usd/sqm. Aerogel insulation film is an ultra-low thermal conductivity insulation material composed of nanoporous aerogel particles or thin layers with films such as PET and polyimide, pressure-sensitive adhesive, and encapsulation layer. It relies on the nanopores of aerogel to inhibit gas heat conduction and convection, and reduce interfacial thermal resistance to reduce heat conduction, thereby achieving high thermal insulation in a very thin thickness. It often also has the characteristics of light transmission or semi-transparency, flame retardancy, and lightweight. It is used for energy-saving thermal insulation in architectural glass, skylights, industrial pipelines, cold chain, etc.

Market Concentration and Major Players:

Internationally, the aerogel insulation film market is highly concentrated, primarily in developed countries in Europe and America. Large manufacturers include Aspen Aerogels and Blueshift Materials. Domestically, the aerogel insulation film market still has significant room for growth.

Manufacturing Process and Market Trends:

Typical aerogel insulation films are prepared by generating nanoporous wet gels from silicon-based precursors via a sol-gel reaction. These wet gels are then loaded onto flexible substrates such as PET, polyimide, or fiberglass fabrics through impregnation or

coating. After solvent replacement to reduce surface tension, the film is dried and shaped. While traditional supercritical drying best preserves pores, it involves heavy equipment and high costs. The industry is shifting towards surface modification and atmospheric pressure drying to reduce cycle time and capital expenditure. Finally, multilayer composite molding, encapsulation, and adhesive layer bonding yield cuttable insulation film products. The essence of process competition lies in maintaining stable brittleness control and continuous yield without collapsing the nanopores.

Globally, the market penetration of aerogel insulation films is driven by tightening building energy efficiency regulations, the thermal safety of EV batteries, and the rigid demand for lightweight insulation in aerospace. Product forms are diversifying from thick felt sheets to ultra-thin flexible films and transparent glass interlayers. The focus of competition is on the mass production yield of normal pressure drying and roll-to-roll lamination, moisture resistance, durability, and long-term thermal conductivity stability. The downward shift in the cost curve is gradually pushing applications from high-end niche markets to larger-scale battlefields such as building curtain walls and consumer electronics. Regionally, North America and Europe are driven by regulations and certification systems, while the Asia-Pacific region is accelerating its popularization through capacity expansion and terminal manufacturing clusters.

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

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

Highlights and key features of the study

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

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

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

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

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

Global Aerogel Insulation Film production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (K Sqm)

Global Aerogel Insulation Film production by Thickness, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

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

This report profiles key players in the global Aerogel Insulation Film 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 Konlida (China), Blueshift Materials (USA), Sumitomo Riko Company Limited (Japan), PROMI (Taiwan), Aspen Aerogels (USA), JIOS Aerogel (Singapore), LG Chem (South Korea), Alkegen (USA), KrossLinker (Singapore), ENERSENS (France), 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 Film market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aerogel Insulation Film Market, Segmentation by Thickness:

Below 100 μ m

100 μ m - 300 μ m

Above 300 μ m

Global Aerogel Insulation Film Market, Segmentation by Materials:

Silica

Polyimide

Cellulose

Others

Global Aerogel Insulation Film Market, Segmentation by Structure:

Single-layer

Multi-layer

Global Aerogel Insulation Film Market, Segmentation by Application:

Consumer Electronics

Food

Pharmaceutical

Others

Companies Profiled:

Konlida (China)

Blueshift Materials (USA)

Sumitomo Riko Company Limited (Japan)

PROMI (Taiwan)

Aspen Aerogels (USA)

JIOS Aerogel (Singapore)

LG Chem (South Korea)

Alkegen (USA)

KrossLinker (Singapore)

ENERSENS (France)

Armacell (Luxembourg)

TENANOM (China)

Suzhou Zhuona Nanotechnology (China)

Guangbong Cannano New Matcricl (China)

Anhui Keang New Materials Technology (China)

Shenzhen Meixing New Materials Technology (China)

Key Questions Answered:

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

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