

Global Aerogel Insulation Film Market Growth 2026-2032

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Abstracts

The global Aerogel Insulation Film market size is predicted to grow from US\$ 323 million in 2025 to US\$ 466 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Aerogel Insulation Film Industry Forecast" looks at past sales and reviews total world Aerogel Insulation Film sales in 2025, providing a comprehensive analysis by region and market sector of projected Aerogel Insulation Film sales for 2026 through 2032. With Aerogel Insulation Film sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aerogel Insulation Film industry.

This Insight Report provides a comprehensive analysis of the global Aerogel Insulation Film landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aerogel Insulation Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aerogel Insulation Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aerogel Insulation Film and breaks down the forecast by Thickness, by Application, geography, and market size to highlight emerging pockets of

opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aerogel Insulation Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Aerogel Insulation Film market by product type, application, key manufacturers and key regions and countries.

Segmentation by Thickness:

Below 100 ?m

100 ?m - 300 ?m

Above 300 ?m

Segmentation by Materials:

Silica

Polyimide

Cellulose

Others

Segmentation by Structure:

Single-layer

Multi-layer

Segmentation by Application:

Consumer Electronics

Food

Pharmaceutical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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)

Guangdong Cannano New Materials (China)

Anhui Keang New Materials Technology (China)

Shenzhen Meixing New Materials Technology (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aerogel Insulation Film market?

What factors are driving Aerogel Insulation Film market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aerogel Insulation Film market opportunities vary by end market size?

How does Aerogel Insulation Film break out by Thickness, by Application?

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