

# Global Aerogels Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Aerogels market size is expected to reach \$ 3359 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Aerogels are a class of synthetic, ultralight porous solids made by starting with a wet gel and removing the liquid while preserving the gel's three-dimensional network, so the liquid phase is effectively replaced by gas. The result is a "solid foam" with extremely high porosity, very low density, and exceptionally low thermal conductivity—properties that make aerogels attractive wherever designers need strong insulation performance in minimal thickness and weight.

Industrially, silica aerogel remains the most widely commercialized chemistry, but polymer, carbon, and other oxide aerogels are used when flexibility, toughness, or electrical/thermal functionality matters.

The manufacturing logic is typically sol-gel ? aging/solvent exchange ? controlled drying, with supercritical drying frequently highlighted as the route that best preserves the pore network (and therefore performance), albeit with higher capex/opex and process discipline requirements.

In the supply chain, aerogel producers sit between chemical feedstocks/capital equipment and downstream converters/OEMs that "package" aerogel into application-ready forms (blankets, panels, composites, particles for plasters/coatings, or precision parts). Upstream inputs commonly include silica precursors or soluble silicates, alcohol/solvents, catalysts, hydrophobizing surface modifiers, reinforcement fibers and binders for flexible blankets, plus energy- and pressure-intensive drying assets; this is why scale, yield, and plant uptime are as important as chemistry.

Downstream demand is concentrated in three user groups with distinct procurement behaviors: (1) Energy/industrial insulation (LNG, refining, petrochemical equipment, hot/cold piping) where products like high-temperature blankets are specified by EPCs/insulation contractors and must meet standards such as ASTM C1728, with long qualification cycles and project-based ordering.

(2) Buildings/envelope/daylighting where aerogel is designed into systems that balance U-value with light transmission and acoustics (e.g., Cabot's Lumira aerogel used in translucent building products such as Kalwall panels and aerogel-filled channel glass solutions), so purchasing is OEM-driven and highly specification-led. (3) EV batteries and energy storage safety where thermal runaway barriers are co-developed with automakers and cell/pack engineers under strict QA, traceability, and multi-year supply commitments; Aspen publicly highlights deep collaboration with General Motors on its Ultium platform as an example of this design-in model.

On the market side, global production of about 118.34 kmt, with an average global market price 15 USD/kg. Demand trends are being pulled by tighter energy-efficiency requirements (thin insulation reduces heat loss and footprint), renewed LNG/refinery/petrochemical capex, and the rapid expansion of EV safety content per vehicle (thermal barriers at cell/module/pack levels).

Competition is led by a mix of established global players and fast-scaling challengers—Aspen, Cabot, IBIH, Nanotechnology (e.g., Nano Tech Co., Ltd.), Guangdong Alison High-tech, Zhongning Technology, and Armacell—maps well to the industry's two main "battlefields": insulation systems and battery thermal protection.

Given energy-intensive processing and the need to fund application engineering, a representative gross margin of ~28% is reasonable for mainstream industrial aerogel products, while best-in-class, highly differentiated suppliers can run materially higher (Aspen has reported ~40% gross margin in recent full-year results as its mix shifted toward higher-value thermal barriers).

This report studies the global Aerogels production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Aerogels total production and demand, 2021-2032, (Tons)

Global Aerogels total production value, 2021-2032, (USD Million)

Global Aerogels production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Aerogels consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Aerogels domestic production, consumption, key domestic manufacturers and share

Global Aerogels production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Aerogels production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Aerogels production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Aerogels 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, Cabot, IBIH, Nanotechnology, Guangdong Alison High-tech, Zhongning Technology, Armacell, Enersens, Van-Research, Aerospace Wujiang, 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 Aerogels market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Aerogels Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Aerogels Market, Segmentation by Type:**

Aerogel Blankets

Aerogel Sheets/Pads

Powders and Granules

Others

**Global Aerogels Market, Segmentation by Reinforced Material:**

Glass Fiber

Carbon Fiber

Other

#### Global Aerogels Market, Segmentation by Channel:

Direct Sell

Distribution

#### Global Aerogels Market, Segmentation by Application:

Oil and Gas

Construction

EV

Aerospace and Defense Materials

Other

#### Companies Profiled:

Aspen

Cabot

IBIH

Nanotechnology

Guangdong Alison High-tech

Zhongning Technology

Armacell

Enersens

Van-Research

Aerospace Wujiang

Aerogel Technologies

Jiangsu Jiayun New Materials

Zhongke Runzi Technology

Active Aerogels

Xiamen Namet

Benarx

Hualu Aerogel

Zhejiang UGOO Technology

Haiying Special Materials

Pan Asian Microvent Tech

Chenguang New Materials

### **Key Questions Answered:**

1. How big is the global Aerogels market?
2. What is the demand of the global Aerogels market?
3. What is the year over year growth of the global Aerogels market?
4. What is the production and production value of the global Aerogels market?
5. Who are the key producers in the global Aerogels market?

6. What are the growth factors driving the market demand?

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