

# Global Alumina Aerogel Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Alumina Aerogel market size is expected to reach \$ 588 million by 2032, rising at a market growth of 13.4% CAGR during the forecast period (2026-2032).

Alumina aerogel is an ultra-lightweight, highly porous nanostructured material composed primarily of aluminum oxide ( $Al_2O_3$ ), produced by sol-gel polymerization of aluminum alkoxide or aluminum salt precursors followed by supercritical or ambient pressure drying to preserve its 3D mesoporous network (porosity often >85-95%, density as low as 0.02-0.2 g/cm<sup>3</sup>). It combines extremely low thermal conductivity, high surface area (typically 200-600 m<sup>2</sup>/g), excellent high-temperature stability (often >1,000 °C), and good chemical resistance, making it suitable for aerospace thermal insulation, catalyst supports, high-temperature filtration, energy storage separators, and defense applications. The supply chain begins upstream with aluminum alkoxides (e.g., aluminum sec-butoxide), aluminum salts (e.g., aluminum nitrate), solvents (ethanol, isopropanol), catalysts (acid/base), and drying equipment (supercritical CO<sub>2</sub> systems), followed by midstream sol-gel synthesis, aging, surface modification, solvent exchange, and controlled drying to form monoliths, granules, blankets, or composite panels; downstream integration includes insulation modules for aerospace and industrial furnaces, catalyst carrier systems in petrochemical processing, thermal barrier components for batteries, and advanced lightweight structural composites, with value concentration typically highest at the drying technology and application-specific composite integration stages. In 2025, global alumina aerogel output was about 2,700 tons versus 3,800 tons of installed capacity, with prices ranging from USD 78,000-150,000 per ton and an average gross margin of roughly 45%.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Alumina Aerogel 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), BASF (Germany), Armacell (Luxembourg), Enersens (France), Svenska Aerogel (Sweden), Blueshift Materials (USA), Active Aerogels (Portugal), JIOS Aerogel (South Korea), 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 Alumina Aerogel 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 Alumina Aerogel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Alumina Aerogel Market, Segmentation by Type:

Amorphous Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

#### Global Alumina Aerogel Market, Segmentation by Thermal Performance:

Standard High Temperature (1,200°C)

## Global Alumina Aerogel Market, Segmentation by Application:

Aerospace & Defense

Petrochemical

Industrial Insulation

Battery Production

Energy & Power

Others

## Companies Profiled:

Aspen Aerogels (USA)

Cabot Corporation (USA)

Aerogel Technologies (USA)

BASF (Germany)

Armacell (Luxembourg)

Enersens (France)

Svenska Aerogel (Sweden)

Blueshift Materials (USA)

Active Aerogels (Portugal)

JIOS Aerogel (South Korea)

Surnano Aerogel (China)

Thermablok Aerogels (UK)

AeroGel Solutions (USA)

Wacker Chemie (Germany)

Mogul Aerogel (Turkey)

**Key Questions Answered:**

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

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