

Global Alumina Aerogel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Alumina Aerogel market size was valued at US\$ 244 million in 2025 and is forecast to a readjusted size of US\$ 588 million by 2032 with a CAGR of 13.4% during review period.

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/cm³). It combines extremely low thermal conductivity, high surface area (typically 200-600 m²/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 CO₂ 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 is a detailed and comprehensive analysis for global Alumina Aerogel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Alumina Aerogel market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alumina Aerogel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alumina Aerogel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alumina Aerogel market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Alumina Aerogel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Alumina Aerogel market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Alumina Aerogel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Amorphous Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

Market segment by Thermal Performance

Standard High Temperature (1,200°C)

Market segment by Application

Aerospace & Defense

Petrochemical

Industrial Insulation

Battery Production

Energy & Power

Others

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Alumina Aerogel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Alumina Aerogel, with price, sales quantity, revenue, and global market share of Alumina Aerogel from 2021 to 2026.

Chapter 3, the Alumina Aerogel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Alumina Aerogel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Alumina Aerogel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Alumina Aerogel.

Chapter 14 and 15, to describe Alumina Aerogel sales channel, distributors, customers, research findings and conclusion.

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