

Global Aerogel Insulation Materials for New Energy 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 Aerogel Insulation Materials for New Energy market size was valued at US\$ 849 million in 2025 and is forecast to a readjusted size of US\$ 1182 million by 2032 with a CAGR of 5.2% during review period.

Aerogel insulation materials for new energy are functional thermal-protection materials that use a nano-porous aerogel structure to deliver low thermal conductivity, high-temperature resistance and lightweight insulation. Their most important use is in EV and energy-storage battery systems, where they help delay or prevent thermal-runaway propagation while also supporting cell swelling management, pack-space efficiency and vehicle lightweighting. Compared with conventional mica, ceramic-fiber or foam-based materials, aerogel insulation can provide stronger thermal resistance at a given thickness, making it suitable for high-energy-density battery packs, fast-charging platforms, BESS cabinets and new-energy applications with higher safety requirements. In 2025, the global Aerogel Insulation Materials for New Energy market is estimated at about 110 million Sqm, with an average ex-works price of roughly 7.5 US\$/Sq m.

The value chain starts with silica precursors, sol-gel additives, reinforcing fibers, surface modifiers and composite substrates, moves through aerogel blanket, pad, sheet, coating and die-cut composite manufacturers, and serves EV batteries, energy-storage systems, new-energy vehicles, hydrogen equipment and industrial thermal-management applications.

Growth in aerogel insulation materials for new energy is mainly driven by stricter battery safety standards, higher-energy-density battery packs, rising thermal stress from fast

charging and the rapid deployment of large-scale energy storage. Thermal-runaway risk is forcing OEMs, battery manufacturers and BESS integrators to strengthen cell-to-cell, module-to-module and pack-level propagation barriers. Aerogel materials are well positioned because they provide strong insulation in a thin and lightweight format. Aspen Aerogels states that PyroThin can mitigate or stop cell-to-cell thermal propagation and is already in volume production for major automotive OEMs in North America, Europe and Asia, indicating that the material has moved from validation to scaled supply.

This report is a detailed and comprehensive analysis for global Aerogel Insulation Materials for New Energy 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 Aerogel Insulation Materials for New Energy market size and forecasts, in consumption value (\$ Million), sales quantity (million Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Insulation Materials for New Energy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (million Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Insulation Materials for New Energy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (million Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Aerogel Insulation Materials for New Energy market shares of main players, shipments in revenue (\$ Million), sales quantity (million Sqm), and ASP (US\$/Sq m), 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 Aerogel Insulation Materials for New Energy

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 Aerogel Insulation Materials for New Energy 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, IBIH Advanced Materials, Blueshift Materials, Guangdong Alison Hi-Tech, Nano Tech, JIOS Aerogel, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aerogel Insulation Materials for New Energy 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

Silica Aerogel

Fiber-reinforced Aerogel

Polymer Composite Aerogel

Others

Market segment by Product Form

Aerogel Blanket

Aerogel Pad

Others

Market segment by Battery Location

Cell-to-cell Barrier

Module Barrier

Others

Market segment by Application

Electric Vehicles

Energy Storage Systems

Others

Major players covered

Aspen Aerogels

IBIH Advanced Materials

Blueshift Materials

Guangdong Alison Hi-Tech

Nano Tech

JIOS Aerogel

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 Aerogel Insulation Materials for New Energy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aerogel Insulation Materials for New Energy, with price, sales quantity, revenue, and global market share of Aerogel Insulation Materials for New Energy from 2021 to 2026.

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

Chapter 4, the Aerogel Insulation Materials for New Energy 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 Aerogel Insulation Materials for New Energy 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 Aerogel Insulation Materials for New Energy.

Chapter 14 and 15, to describe Aerogel Insulation Materials for New Energy sales channel, distributors, customers, research findings and conclusion.

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