

Global Silica Aerogel Market Growth 2025-2031

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Abstracts

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The global Silica Aerogel market size is predicted to grow from US\$ 816 million in 2025 to US\$ 1881 million in 2031; it is expected to grow at a CAGR of 14.9% from 2025 to 2031.

Silica aerogel is a highly porous and ultralight material primarily composed of silica, renowned for its exceptional properties such as extremely low density, high surface area, and outstanding thermal insulation. It is produced by removing the liquid component from a gel, resulting in a solid structure filled with air, giving it a unique honeycomb-like network of interconnected particles. This structure imparts aerogels with their signature ultralight weight and excellent insulation capabilities. The pore sizes in silica aerogel typically fall below 100 nm, and particle sizes are usually less than 20 nm, making them one of the most efficient thermal insulators available today. Given these characteristics, silica aerogels are commonly referred to as 'frozen smoke' or 'solid air' due to their translucent appearance and low weight. They are primarily used in applications requiring high-performance insulation, but their absorbent properties also make them useful in areas like oil spill cleanup, noise control, and environmental protection.

The global market for silica aerogels is experiencing notable growth, driven by their increasing use in high-performance applications, particularly in energy storage and electric vehicle (EV) battery systems. With growing safety requirements for EV batteries, silica aerogels have emerged as critical thermal insulation materials that can significantly improve battery pack safety by preventing thermal runaway. This is especially important in high-energy-density lithium-ion batteries, where safety concerns are paramount. Silica aerogels are also gaining traction in other battery technologies, such as phosphate-based and energy storage batteries, as demand for high-end

insulation solutions grows alongside battery production. Furthermore, the industrial sector is expanding its use of silica aerogels in applications such as oil spill management, noise control, and heat insulation in various environments. Despite the benefits, key challenges such as high production costs and environmental concerns during manufacturing remain obstacles. However, with ongoing advancements in aerogel technology, coupled with a global shift toward sustainability, new opportunities are emerging. Silica aerogels are well-positioned to play a larger role in green construction, renewable energy, and other eco-friendly sectors, where their lightweight, insulating properties are highly valued. This trend suggests a strong growth trajectory for silica aerogels in the coming years.

LP Information, Inc. (LPI) ' newest research report, the "Silica Aerogel Industry Forecast" looks at past sales and reviews total world Silica Aerogel sales in 2024, providing a comprehensive analysis by region and market sector of projected Silica Aerogel sales for 2025 through 2031. With Silica Aerogel sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Silica Aerogel industry.

This Insight Report provides a comprehensive analysis of the global Silica Aerogel 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 Silica Aerogel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Silica Aerogel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Silica Aerogel and breaks down the forecast by Type, 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 Silica Aerogel.

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

Segmentation by Type:

Blanket

Powder

Other

Segmentation by Application:

Oil & Gas

Construction

EV

Aerospace and Defense Materials

Other

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.

Aspen

Cabot

Armacell

Nanotechnology

Guangdong Alison High-tech Co., Ltd.

Aerogel Technologies

Active Aerogels

Enersens

Benarx

Aerospace Wujiang

Zhongning Technology

Xiamen Namet

IBIH

Van-Research

Jiangsu Jiayun New Materials

Zhongke Runzi Technology

Hualu Aerogel

Key Questions Addressed in this Report

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

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

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

How do Silica Aerogel market opportunities vary by end market size?

How does Silica Aerogel break out by Type, by Application?

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