

Aerogel Market Set to Reach \$7.5 Billion by 2032, Driven by Rising Demand for Advanced Thermal Insulation Solutions

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WILMINGTON, DE, UNITED STATES, June 10, 2026 /EINPresswire.com/ -- The global [aerogel market](#) is witnessing remarkable growth, fueled by increasing adoption across industries such as oil & gas, construction, aerospace, and automotive. Renowned for its exceptional thermal insulation properties, lightweight structure, durability, reusability, and recyclability, aerogel is rapidly emerging as a preferred alternative to traditional insulation materials.



Aerogel Market Rising Demand

According to a report published by Allied Market Research, titled "Aerogel Market by Form (Blanket, Particle, Panel, and Monolith), Type (Silica, Polymers, Carbon, and Others), and End-Use Industry (Building & Construction, Oil & Gas, Automotive, Aerospace, Performance Coatings, and Others): Global Opportunity Analysis and Industry Forecast, 2022–2032," the global aerogel market was valued at \$1.3 billion in 2022 and is projected to reach \$7.5 billion by 2032, registering a robust CAGR of 19.4% from 2023 to 2032.

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Key Factors Driving Market Growth:-

The market's strong momentum is primarily attributed to:

- Growing demand for advanced insulation materials in the oil & gas sector
- Superior thermal resistance and fire-protection capabilities of aerogels
- Reusability and recyclability supporting sustainability goals

- Increasing preference for lightweight and thinner insulation alternatives
- Expanding use in energy-efficient buildings and industrial applications

While high production costs and relatively poor mechanical strength continue to pose challenges, rising investments in innovative applications are creating substantial growth opportunities.

Emerging Opportunities Across Industries:-

The aerogel market is expected to benefit significantly from:

- Growing adoption in lightweight protective equipment
- Increased demand for aerogel-based apparel and wearable insulation products
- Replacement of conventional materials such as fiberglass, foam, and cellulose
- Expanding utilization in aerospace, automotive, and energy sectors

Impact of the Russia-Ukraine Conflict:

- The Russia-Ukraine conflict has influenced the global aerogel supply chain in multiple ways. Russia's role as a significant aerogel producer has resulted in raw material shortages, increased prices, and production delays across global markets.
- At the same time, the conflict has accelerated demand for aerogel insulation in Ukraine, particularly for retrofitting buildings to improve energy efficiency and reduce energy consumption.

Particle Segment to Register the Fastest Growth:

- By form, the blanket segment accounted for the largest share of the market in 2022, contributing more than half of global revenue. Aerogel blankets continue to gain traction in aerospace applications due to their outstanding thermal protection capabilities in extreme environments.
- However, the particle segment is anticipated to record the fastest growth, registering a CAGR of 19.84% through 2032. Aerogel particles are increasingly being incorporated into building materials such as concrete and plaster to enhance insulation performance and improve energy efficiency.

Silica Aerogels Continue to Dominate:

- Based on type, silica aerogels held the largest market share in 2022 and are expected to maintain their leadership throughout the forecast period. Their extensive use in aerospace systems, building insulation, and cryogenic applications continues to drive demand.

- Meanwhile, the carbon aerogel segment is projected to grow at the fastest pace, with a CAGR of 19.91%. Carbon aerogels are gaining popularity in gas sensing technologies due to their high surface area and unique porous structure.

Automotive Sector Emerging as a High-Growth End User:

- The oil & gas industry remained the largest end-use segment in 2022, accounting for more than half of global market revenue. Aerogel insulation plays a critical role in cryogenic storage and transportation of liquefied natural gas (LNG), minimizing heat transfer and reducing product losses.

- The automotive segment, however, is expected to register the highest CAGR of 20.28% through 2032. Automakers are increasingly adopting aerogels for thermal management, battery protection, and lightweight vehicle design, supporting efficiency and sustainability goals.

North America Leads, While Europe Records Fastest Growth:

- North America dominated the global aerogel market in 2022, accounting for more than two-fifths of total revenue. Strong demand from the oil & gas industry and supportive regulatory initiatives continue to reinforce the region's market leadership.

- Europe is expected to witness the fastest growth during the forecast period, expanding at a CAGR of 19.78%. The region's thriving automotive sector and growing emphasis on energy-efficient technologies are key drivers supporting market expansion.

Leading Companies Shaping the Competitive Landscape:-

Key players operating in the global aerogel market include:

- Armacell
- Active Aerogels
- Aerogel Technologies LLC
- Cabot Corporation
- Aspen Aerogels, Inc.
- BASF SE
- Dow
- Svenska Aerogel AB
- Thermablok Aerogels Limited
- Guangdong Alison Hi-Tech Co., Ltd.

These companies are actively pursuing product innovations, strategic partnerships, capacity expansions, joint ventures, and technology advancements to strengthen their market positions

and expand their global footprint.

Outlook:

With growing demand for high-performance insulation materials, increasing focus on energy efficiency, and expanding applications across multiple industries, the aerogel market is poised for substantial growth over the next decade. Continued technological advancements and cost optimization efforts are expected to further accelerate adoption, making aerogels a critical material in the future of sustainable industrial development.

For more information, visit <https://www.alliedmarketresearch.com/aerogel-market/purchase-options>:

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