Aerogel Market Dynamics: Innovation Meets Industrial Demand

Rising demand for aerogel insulation in Ukraine to retrofit buildings for energy efficiency

Aerogel Market, by Form

WILMINGTON, DE, UNITED STATES, August 19, 2025 /EINPresswire.com/ -- The global aerogel market is witnessing robust growth driven by rising demand from the oil & gas sector and the material's unique properties such as superior thermal resistance, reusability, and recyclability. However, high production costs remain a challenge, while increasing demand for lightweight and protective equipment creates significant opportunities.

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Market Highlights:-

- Market Size 2022: $1.3 billion
- Market Size 2032: $7.5 billion
- CAGR (2023–2032): 19.4%
- Base Year: 2022
- Coverage: Form, Type, End-use Industry, and Region
- Pages: 350

Key Growth Drivers:-

- Rising adoption in the oil & gas industry
- Properties such as lightweight, high durability, fire protection, and recyclability
- Substitution potential for fiberglass, foam, and cellulose

Market Restraints:

- High production costs
- Poor mechanical strength
- Demand fluctuations tied to consumer economic conditions

Opportunities

- Expansion across multiple industries
- Increasing use in aerogel-based apparel and protective equipment

Market Impact: Russia-Ukraine Conflict:

- Supply chain disruptions from Russia, a key aerogel producer
- Shortages of raw materials and increased prices
- Rising demand for aerogel insulation in Ukraine to retrofit buildings for energy efficiency

Segmental Insights:-

By Form:

- Blanket: Largest share in 2022 (>50%), widely used in spacecraft and satellites.
- Particle: Fastest growth (CAGR 19.84%), used in concrete/plaster for energy-efficient construction.

By Type:

- Silica: Dominated 2022 (>50%), used in aerospace, building, and cryogenic insulation.
- Carbon: Fastest growth (CAGR 19.91%), used in gas sensors due to high surface area.

By End-use Industry:

- Oil & Gas: Largest share in 2022 (>50%), crucial for LNG storage and transport.
- Automotive: Fastest growth (CAGR 20.28%), owing to lightweight and superior thermal insulation.

By Region:

- North America: Leading market (>40% share in 2022), driven by regulatory adoption in oil & gas.
- Europe: Fastest CAGR (19.78%), with strong automotive applications (engine and exhaust insulation).

Key Market Players:

- 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 focus on new product launches, partnerships, expansions, and joint ventures to strengthen their market position.

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