

Global Cryogenic Aerogel Insulation Material Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBCF5CABEA7EEN.html>

Date: July 2026

Pages: 114

Price: US\$ 4,480.00 (Single User License)

ID: GBCF5CABEA7EEN

Abstracts

The global Cryogenic Aerogel Insulation Material market size is expected to reach \$ 1340 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Cryogenic aerogel insulation materials are aerogel-based thermal insulation products designed for low-temperature, cryogenic, and liquefied gas applications. These materials are typically manufactured by combining silica aerogels with fiber reinforcement layers, aluminum foil, or vapor barrier structures to minimize heat ingress and refrigeration losses in LNG, liquid nitrogen, liquid oxygen, liquid hydrogen, industrial gas, and cold-chain systems. Key characteristics include hydrophobicity, moisture resistance, low dust generation, flame resistance, and thin-profile installation. The estimated overall gross margin is approximately 42%.

The primary demand for this market comes from LNG receiving terminals, liquefaction plants, cryogenic storage tanks, industrial gas pipelines, and hydrogen energy infrastructure. Compared with traditional cryogenic insulation materials such as cellular glass, PIR, and PUR foam, aerogel insulation can achieve equivalent thermal resistance with significantly lower thickness, making it particularly attractive for congested pipe racks, valves, elbows, marine applications, and retrofit projects. In addition, flexible aerogel blanket products maintain a degree of flexibility at cryogenic temperatures, reducing the risks of cold leakage, condensation, and ice formation caused by thermal contraction and joint gaps. Buyers typically evaluate minimum service temperature, thermal conductivity, vapor barrier integrity, water absorption, installation dust generation, compression recovery, and fire performance rather than focusing solely on cost per unit area.

Over the next six years, market growth is expected to be driven by three major factors. First, continued expansion of LNG infrastructure in Asia and North America will increase demand for thin, high-efficiency insulation materials in liquefaction, regasification, storage, transportation, and marine fuel systems. Second, emerging applications such as liquid hydrogen storage, hydrogen liquefaction, aerospace cryogenic testing, and clean cold-source systems for semiconductor and pharmaceutical manufacturing are beginning to adopt higher-performance composite insulation structures. Third, aerogel suppliers are reducing installation costs through ambient-pressure drying technologies, low-dust composite designs, localized production capacity, and prefabricated processing solutions.

Short-term constraints include relatively high material costs, lengthy qualification and certification cycles for installation systems, and the need to work alongside cellular glass, perlite, multilayer insulation (MLI), and vacuum insulation panels (VIPs) in large-scale storage tank applications, where layered insulation architectures remain common.

This report studies the global Cryogenic Aerogel Insulation Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cryogenic Aerogel Insulation Material and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cryogenic Aerogel Insulation Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cryogenic Aerogel Insulation Material total production and demand, 2021-2032, (kg)

Global Cryogenic Aerogel Insulation Material total production value, 2021-2032, (USD Million)

Global Cryogenic Aerogel Insulation Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Cryogenic Aerogel Insulation Material consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Cryogenic Aerogel Insulation Material domestic production, consumption, key domestic manufacturers and share

Global Cryogenic Aerogel Insulation Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Cryogenic Aerogel Insulation Material production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (kg)

Global Cryogenic Aerogel Insulation Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Cryogenic Aerogel Insulation Material market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aspen Aerogels, Armacell, Cabot, Alkegen, Guangdong Alison Technology, Nano Tech, IBIH Advanced Materials, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cryogenic Aerogel Insulation Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cryogenic Aerogel Insulation Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cryogenic Aerogel Insulation Material Market, Segmentation by Type:

Flexible Blanket

Rigid Panel

Preformed Pipe Shell

Aerogel Powder or Granules

Aerogel Coating

Other Forms

Global Cryogenic Aerogel Insulation Material Market, Segmentation by Minimum Service Temperature:

?-80? Rated

-80? to -180? Rated

-180? to -200? Rated

Below -200? Rated

Global Cryogenic Aerogel Insulation Material Market, Segmentation by Thermal Conductivity Grade:

?0.014 W/(m?K)

>0.014 to 0.017 W/(m?K)

>0.017 to 0.023 W/(m?K)

>0.023 W/(m²K)

Global Cryogenic Aerogel Insulation Material Market, Segmentation by Facing and Vapor Barrier Structure:

Unfaced Composite

Aluminum Foil-Faced

Polymer Film-Laminated

Vapor Barrier Integrated

Preformed or Jacketed

Other Facing Structures

Global Cryogenic Aerogel Insulation Material Market, Segmentation by Application:

LNG Infrastructure

Industrial Gas and Chemical Processing

Hydrogen Energy Systems

Aerospace and Cryogenic Test Equipment

Cold Chain and Cleanroom Facilities

Marine and Transportation

Companies Profiled:

Aspen Aerogels

Armacell

Cabot

Alkegen

Guangdong Alison Technology

Nano Tech

IBIH Advanced Materials

Key Questions Answered:

1. How big is the global Cryogenic Aerogel Insulation Material market?
2. What is the demand of the global Cryogenic Aerogel Insulation Material market?
3. What is the year over year growth of the global Cryogenic Aerogel Insulation Material market?
4. What is the production and production value of the global Cryogenic Aerogel Insulation Material market?
5. Who are the key producers in the global Cryogenic Aerogel Insulation Material market?
6. What are the growth factors driving the market demand?

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