

Global Cryogenic Aerogel Insulation Material 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 Cryogenic Aerogel Insulation Material market size was valued at US\$ 719 million in 2025 and is forecast to a readjusted size of US\$ 1340 million by 2032 with a CAGR of 9.3% during review period.

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 is a detailed and comprehensive analysis for global Cryogenic Aerogel Insulation Material 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 Cryogenic Aerogel Insulation Material market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cryogenic Aerogel Insulation Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cryogenic Aerogel Insulation Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Cryogenic Aerogel Insulation Material market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Cryogenic Aerogel Insulation Material

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 Cryogenic Aerogel Insulation Material 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, 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.

Market Segmentation

Cryogenic Aerogel Insulation Material 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

Flexible Blanket

Rigid Panel

Preformed Pipe Shell

Aerogel Powder or Granules

Aerogel Coating

Other Forms

Market segment by Minimum Service Temperature

?-80? Rated

-80? to -180? Rated

-180? to -200? Rated

Below -200? Rated

Market segment 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/(m?K)

Market segment by Facing and Vapor Barrier Structure

Unfaced Composite

Aluminum Foil-Faced

Polymer Film-Laminated

Vapor Barrier Integrated

Preformed or Jacketed

Other Facing Structures

Market segment 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

Major players covered

Aspen Aerogels

Armacell

Cabot

Alkegen

Guangdong Alison Technology

Nano Tech

IBIH Advanced Materials

Market segment by region, regional analysis covers

Global Cryogenic Aerogel Insulation Material Market 2026 by Manufacturers, Regions, Type and Application, Fore...

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 Cryogenic Aerogel Insulation Material product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cryogenic Aerogel Insulation Material 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 Cryogenic Aerogel Insulation Material 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 Cryogenic Aerogel Insulation Material.

Chapter 14 and 15, to describe Cryogenic Aerogel Insulation Material sales channel, distributors, customers, research findings and conclusion.

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