

Global Cryogenic Thermal Insulation Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G018F985A375EN.html>

Date: July 2026

Pages: 136

Price: US\$ 3,480.00 (Single User License)

ID: G018F985A375EN

Abstracts

According to our (Global Info Research) latest study, the global Cryogenic Thermal Insulation Materials market size was valued at US\$ 3782 million in 2025 and is forecast to a readjusted size of US\$ 5376 million by 2032 with a CAGR of 5.2% during review period.

Cryogenic insulation materials are used for the thermal insulation of equipment involved in the storage and transport of cryogenic or ultra-low-temperature media, such as liquid nitrogen, liquid oxygen, liquid hydrogen, and LNG. Their primary functions are to minimize cold energy loss and prevent frost formation, condensation, and structural thermal stress. Common types include cellular glass, polyurethane foam, aerogel blankets, vacuum insulation panels, multi-layer insulation (MLI) materials, and perlite.

Upstream raw materials include glass, polyurethane, silica aerogel, aluminum foil, fiberglass, perlite, binders, and flame retardants; downstream applications span LNG storage tanks, cryogenic pipelines, industrial gases, liquid hydrogen storage and transport, marine vessels, cold chain logistics, and aerospace equipment.

The global market for cryogenic insulation materials features an average price of \$4,850 per ton and a sales volume of approximately 758,000 tons; annual production capacity ranges from 1.05 to 1.15 million tons, with an industry profit margin of around 22%.

The global cryogenic insulation materials market will be driven by the expansion of LNG trade, the development of liquid hydrogen storage and transport, rising demand for industrial gases, and upgrades to cold chain infrastructure. The construction of LNG terminals, storage tanks, transport vessels, and cryogenic pipeline networks will

continue to fuel demand for cellular glass, perlite, and multi-layer insulation materials. Meanwhile, the growth of the hydrogen energy sector is creating a need for advanced solutions?such as aerogels, vacuum insulation, and composite insulation systems?that offer lower thermal conductivity, lighter weight, and superior resistance to cryogenic thermal cycling. Future industry trends will focus on high energy efficiency, moisture and flame resistance, durability, modular construction, and low-carbon sustainability, alongside increasingly stringent requirements for material stability, installation reliability, and lifecycle maintenance costs.

This report is a detailed and comprehensive analysis for global Cryogenic Thermal Insulation Materials 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 Thermal Insulation Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global Cryogenic Thermal Insulation Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Thermal Insulation Materials

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 Thermal Insulation Materials 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 Owens Corning, Johns Manville, Aspen Aerogels, Armacell, Saint-Gobain, ROCKWOOL, R?chling, Alkegen, Dunmore, Beyond Gravity, etc.

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

Market Segmentation

Cryogenic Thermal Insulation Materials 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

Cellular Glass Insulation

Polyurethane Foam Insulation

Polyisocyanurate Foam Insulation

Aerogel Insulation Blanket

Expanded Perlite Insulation

Mineral Wool Insulation

Multilayer Insulation

Vacuum Insulation Panel

Market segment by Insulation Mechanism

Conductive Heat Transfer Insulation

Convective Heat Transfer Insulation

Radiant Heat Transfer Insulation

Vacuum Insulation

Composite Insulation

Market segment by Product Form

Insulation Board

Insulation Block

Insulation Blanket

Insulation Pipe Section

Insulation Sheet

Insulation Powder

Spray Foam Insulation

Market segment by Application

LNG

Industrial Gas

Hydrogen Energy

Petrochemical

Aerospace

Cryogenic Logistics

Major players covered

Owens Corning

Johns Manville

Aspen Aerogels

Armacell

Saint-Gobain

ROCKWOOL

R?chling

Alkegen

Dunmore

Beyond Gravity

Nichias

Sekisui Soflan Wiz

Huamei Energy-Saving Technology

Dehe Technology

NMG Composites

WinCell Insulation

Market segment by region, regional analysis covers

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 Thermal Insulation Materials product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cryogenic Thermal Insulation Materials 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 Thermal Insulation Materials 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 Thermal Insulation Materials.

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

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