

Cryogenic Insulation Industry Analysis Report 2025: Key Trends, Drivers, and Forecast Insights

*The Business Research Company's
Cryogenic Insulation Global Market
Report 2025 – Market Size, Trends, And
Global Forecast 2025-2034*

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/EINPresswire.com/ -- [Cryogenic
Insulation Market](#) Growth Forecast:
What To Expect By 2025?

The [cryogenic insulation market size](#) has consistently expanded over the past few years. The market, which was valued at \$7.06 billion in 2024, is predicted to rise to \$7.4 billion in 2025, demonstrating a compound annual growth rate (CAGR) of 4.9%. The previous growth trend is largely due to an emphasis on sustainability, progress in aerospace and defence, and applications in the medical and healthcare sectors.



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Strong expansion is anticipated in the cryogenic insulation market size in the coming years, with predictions showing growth to \$9.13 billion by 2029, at a 5.4% compound annual growth rate (CAGR). The growth is expected to stem from increased demand in sectors such as the LNG industry, expansion of the industrial gas sector, a surge in LNG infrastructure, and a rise in medical, healthcare, and

energy storage applications. Key trends predicted to impact the market during the forecast period include space exploration initiatives, the electronics and semiconductor industry, increasing infrastructure investments, and ongoing research and development efforts.

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What Are Key Factors Driving The Demand In The Global Cryogenic Insulation Market?



Looking ahead, the cryogenic insulation market is set to expand due to rising demand for LNG. The processing of natural gas into a liquid state at around -260° Fahrenheit, known as liquid natural gas (LNG), is predominantly used for transportation and storage. The escalating usage of LNG has been a catalyst for increased cryogenic insulation utilisation; this technology facilitates a cost-effective, widely available clean energy future. It plays a role in reducing poverty, curbing energy scarcity worldwide, bolstering cryogenic insulation market ering local economies, enhancing the environment, and ensuring reliable, modern energy access. As noted by the UK's International Gas Union, a non-profit organization, a robust post-pandemic recovery led to a 5% growth in global LNG trade in 2022 compared to 2021. This growth was largely fueled by European demand as the continent seeks alternatives to dwindling Russian gas pipeline supplies, resulting in a 66% surge. In 2022, Europe imported 126.6 million tonnes of LNG, making it the globe's second-largest LNG importer. Consequently, the escalating demand for LNG underpins the cryogenic insulation market boom.

Who Are The Leading Players In The Cryogenic Insulation Market?

Major players in the Cryogenic Insulation include:

- Aspen Aerogels Inc.
- BASF SE
- Armacell Enterprise GmbH & Co. KG
- Lydall Inc.
- Cabot Corporation
- Röchling SE & Co. KG
- Kaefer SA
- Dunmore Holdings Ltd.
- Owens Corning
- Johns Manville Inc.

What Are The Key Trends And Market Opportunities In The Cryogenic Insulation Sector?

One significant trend emerging in the cryogenic insulation market is the invention of cryogenic insulation systems. Cryogenic insulation is specifically used for low temperatures due to its finely dispersed structure and high air absorption capacity, which subsequently increases the material's apparent specific heat due to the heat released by adsorption. For example, in April 2022, BASF, a chemical production company based in Germany, rolled out a cutting-edge cryogenic insulation system. Utilizing their proprietary Elastopor Cryo (Elastopor) technology (LNG), BASF has designed a cryogenic insulation system that may potentially be employed to carry cryogenic liquid freight, including liquefied natural gas and chemicals made by multinationals. BASF's Elastopor technology facilitates outstanding insulation for ships in uneven waters and helps maintain the low-temperature states of liquid cargo throughout its transportation.

Analysis Of Major Segments Driving The Cryogenic Insulation Market Growth

The cryogenic insulation market covered in this report is segmented –

- 1) By Type: Cellular, Fibrous, Flake, Granular, Reflective, Other Types
- 2) By Application: Storage Tanks, Fuel Tanks, Pipe Systems, Terminals, Other Applications
- 3) By End-Use Industry: Energy And Power, Food And Beverages, Chemical, Medical, Other End-Use Industries

Subsegments:

- 1) By Cellular: Polyurethane Foam, Polyisocyanurate Foam, Expanded Polystyrene (EPS)
- 2) By Fibrous: Mineral Wool, Glass Wool, Ceramic Fiber
- 3) By Flake: Expanded Perlite, Expanded Clay
- 4) By Granular: Vermiculite, Expanded Polystyrene Granules
- 5) By Reflective: Reflective Foil Insulation, Radiant Barrier Systems
- 6) By Other Types: Aerogel, Vacuum Insulated Panels (VIPs)

View the full cryogenic insulation market report:

<https://www.thebusinessresearchcompany.com/report/cryogenic-insulation-global-market-report>

Which Region Is Expected To Lead The Cryogenic Insulation Market By 2025?

In 2024, the Asia-Pacific region led the market for cryogenic insulation. It's anticipated that North America will experience the swiftest growth in the forecast period. The report on the cryogenic insulation market encompasses various regions, namely Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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