

Global Nano-composite Thermal Insulation Panel 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 Nano-composite Thermal Insulation Panel market size was valued at US\$ 653 million in 2025 and is forecast to a readjusted size of US\$ 1297 million by 2032 with a CAGR of 10.3% during review period.

Nano composite insulation sheets are high-performance thermal insulation materials primarily composed of polymer matrices embedded with nanoparticle fillers or aerogel materials, encompassing flexible sheets, semi-flexible composite films, and rigid nanoporous insulation boards. They are produced using sol-gel processes, chemical vapor deposition, and drying techniques to achieve high porosity, low thermal conductivity, and moderate mechanical strength. Key specifications include thermal conductivity ranging from 0.010 to 0.035 W/m·K, operating temperature from -50 to 1200?, and thickness between 0.5 and 50 mm. Core functions involve thermal resistance, lightweight properties, and structural support. Primary applications include battery packs, electronic devices, aerospace components, high-temperature industrial piping, and premium building insulation. The upstream supply chain consists of high-purity nanoparticle aerogels and polymer resins, midstream comprises forming and composite processing companies, and downstream covers battery manufacturing, aerospace, electronics, and construction sectors. In 2025, the global average price for rigid board-type products (nano-microporous insulation boards) within the nano-composite insulation sheet industry is approximately USD 500–1,200 per square meter, with a gross margin of around 40%–50%. Flexible sheet-type products (aerogel composite films, lightweight polymer insulation films, etc.) are priced at USD 15–100 per square meter, with a gross margin of about 25%–35%. Due to differences in technological routes and application areas, significant disparities exist in both pricing

and profitability between the two product categories.

The nano composite insulation sheet industry focuses on high-performance, low-thermal-conductivity materials, encompassing flexible sheets, semi-flexible composite films, and rigid nanoporous insulation boards. The upstream relies on high-purity aerogel nanoparticles and polymer resins, while midstream processing enhances material performance through precise composite and forming techniques. Downstream demand is driven by battery packs, electronics, aerospace, and construction sectors, forming a complete value chain. Continuous material innovation and technological advancement improve performance and broaden applications.

Industry policies related to green building and energy efficiency, combined with rapid growth in high-end electronics and electric vehicles, are driving significant market expansion. Companies are actively pursuing mergers, new product launches, and capacity expansion, while regional supply chains are increasingly concentrated in China, Southeast Asia, and North America. Capital expenditure focuses on aerogel production lines, composite processing equipment, and process optimization to meet growing demand for high-performance thermal insulation. Future development trends indicate diversified applications, with flexible sheets suitable for complex structures and rigid nanoporous boards meeting high-temperature industrial requirements. The industry is shifting toward high value-added, low thermal conductivity, and environmentally friendly solutions. Innovation, supply chain optimization, and application expansion will become key competitive drivers, fostering sustained global growth and improved overall gross margins in the nano composite insulation sheet market.

This report is a detailed and comprehensive analysis for global Nano-composite Thermal Insulation Panel 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 Nano-composite Thermal Insulation Panel market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Nano-composite Thermal Insulation Panel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Nano-composite Thermal Insulation Panel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Nano-composite Thermal Insulation Panel market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 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 Nano-composite Thermal Insulation Panel

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 Nano-composite Thermal Insulation Panel 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 Aochuang Technology (Aochuang Tec NEW Energy), Kunshan Qingan Energy Technology Co., Ltd., Panasonic Corporation, Skyboys (Hangzhou) Technology Co., Ltd., Changzhou Youna New Material Technology Co., Ltd., Shanghai Youna New Material Technology Co., Ltd., Changzhou Yiyuan Mesoporous New Materials Co., Ltd., Morgan Advanced Materials, Promat (Etex Group), Alkegen, etc.

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

Market Segmentation

Nano-composite Thermal Insulation Panel 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

Rigid Board

Flexible Sheet

Market segment by Thermal Performance

Ultra-Low Thermal Conductivity (<0.020 W/m·K)

Low Thermal Conductivity (0.021–0.050 W/m·K)

Medium Thermal Conductivity (0.051–0.100 W/m·K)

Others

Market segment by Application

Energy & Power

Industrial Manufacturing

Aerospace & Defense

Construction

Electronics

Others

Major players covered

Aochuang Technology (Aochuang Tec NEW Energy)

Kunshan Qingan Energy Technology Co., Ltd.

Panasonic Corporation

Skyboys (Hangzhou) Technology Co., Ltd.

Changzhou Youna New Material Technology Co., Ltd.

Shanghai Youna New Material Technology Co., Ltd.

Changzhou Yiyuan Mesoporous New Materials Co., Ltd.

Morgan Advanced Materials

Promat (Etex Group)

Alkegen

Zircar Ceramics

NICHIAS Corporation

3M

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 Nano-composite Thermal Insulation Panel product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Nano-composite Thermal Insulation Panel 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 Nano-composite Thermal Insulation Panel 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 Nano-composite Thermal Insulation Panel.

Chapter 14 and 15, to describe Nano-composite Thermal Insulation Panel sales channel, distributors, customers, research findings and conclusion.

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