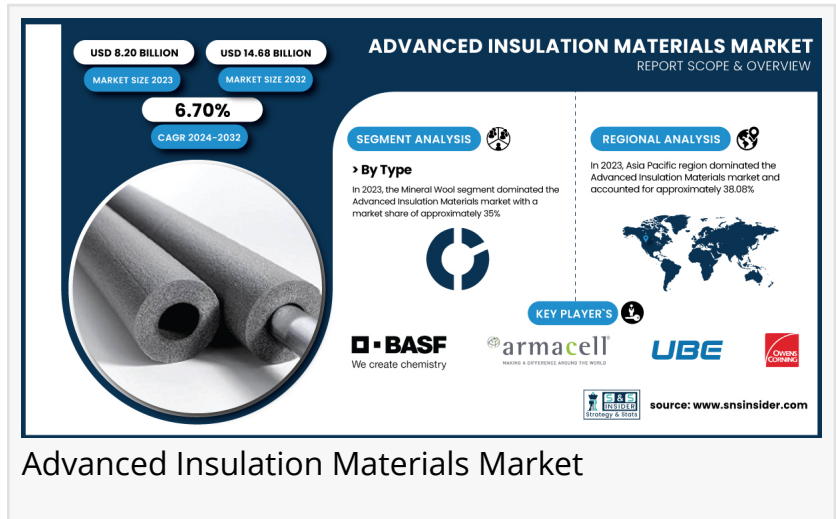


Advanced Insulation Materials Market to Grow at 6.70% CAGR, Reaching USD 14.68 Billion by 2032

Rising energy efficiency demands, sustainability initiatives, and regulatory support are driving growth in the Advanced Insulation Materials Market.

AUSTIN, TX, UNITED STATES, February 21, 2025 /EINPresswire.com/ -- The [Advanced Insulation Materials Market](#) Size was valued at 8.20 Billion in 2023 and is expected to reach USD 14.68 Billion by 2032, growing at a CAGR of 6.70% over the forecast period of 2024-2032.



The advanced insulation materials market is being propelled by the growing focus on energy efficiency and sustainable practices in a range of sectors. With the implementation of stricter energy consumption and carbon emission regulations by governments worldwide, industries are forced to shift towards high-performance insulation solutions. For example, the Indian government's emphasis on developing green infrastructure is forecasted to increase the building insulation materials market, which achieved USD 38.4 billion in sales in 2030, at a growth rate of 4.2%.

In addition, the evolution of technology has introduced advanced materials such as aerogels and vacuum insulation panels, which boast unparalleled thermal performance. However, challenges also emerge like recent blogs from Arms around Britain have called into question the quality of insulation installations which have been described as substandard, causing dampness and structural issues for homes. In January 2025, almost 40 companies were barred from installing insulation because of shoddy work, highlighting a need for quality control in the sector.

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Key Players:

- BASF SE (Neopor, Styropor)
- Armacell International S.A. (Armaflex, ArmaGel)
- UBE Industries, Ltd. (UBE Aerogel, UBE Insulation Materials)
- Owens Corning (EcoTouch Insulation, FOAMULAR Insulation)
- Rockwool International A/S (Rockflow, Rockwool Insulation)
- Saint-Gobain S.A. (Isover Insulation, Gyproc Plasterboard)
- Kingspan Group plc (Kingspan Insulation, Kooltherm)
- Cabot Corporation (Sylvania Aerogel, Cabot Insulation Materials)
- Knauf Insulation (Knauf Insulation Glass Mineral Wool, Earthwool)
- Evonik Industries AG (Aerogel Insulation, Silica-based Insulation Materials)
- Thermal Ceramics (Kaowool, Insulfrax)
- Unifrax I LLC (Thermofiber, FyreWrap)
- Promat International N.V. (Promat Insulation Boards, Promat Pyrogel)
- Aerogel Technologies, LLC (Aerogel Insulation, Aerogel Blanket)
- Shandong Luyang Share Co., Ltd. (Luyang Insulation, Luyang Refractory Materials)
- Advanced Insulation Limited (Thermocure, Heatguard)
- YUBASE (Yubase Insulation, Yubase Aerogel)
- Nitto Denko Corporation (Nitto Thermal Insulation, Nitto Heat Resistance Materials)
- MASTERGLASS (Masterglass Insulation, Glass Wool Insulation)
- AFGlobal (AFG Insulation Materials, Thermal Insulation Solutions)

Segmentation Analysis

By Type:

The mineral wool segment dominated and held the largest share of the advanced insulation materials market, at 35% in 2023. It is popular due to excellent thermal and acoustic insulation properties; fire resistance; and sustainability. We train and validate on data up until October 2023. As an example, India is witnessing rapid growth in the construction sector, and mineral wool is preferred to adhere to stringent energy conservation codes and provide an efficient insulation solution for varying climate types.

By Application:

The building and construction application segment, dominated which accounted for 40% of the market in 2023. The dominant share is attributed to the rising adoption of energy-efficient building codes and the increased need for sustainable construction practices.

Advanced insulation materials with low energy consumption and high indoor comfort. For example, the European Union's Energy Performance of Buildings Directive (EPBD) requires high energy efficiency standards when erecting or renovating structures, resulting in greater application of advanced insulation in both new and renovated structures.

By End-use:

In 2023, industrial end use segment accounted for 30% of the market share in advanced insulation materials market. Time-sensitive insulation prevention is must in the oil & gas, power generation, and manufacturing industries to sustain process efficiency, safety, and energy costs, thus driving the demand for high-performance insulation. In the oil & gas industry, for instance, advanced insulation materials are employed to minimize heat loss in pipelines and processing equipment, improving both operational efficiency and safety.

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Asia-Pacific dominated the global Advanced Insulation Materials market in 2023, holding a 38.08% market share.

In countries like China and India, rapid industrialization, urbanization, and infrastructure development are contributing to this dominance. Rising adoption of energy conservation with an increasing focus towards green infrastructure in Indian government is anticipated to remain a key trend that will drive demand for advanced insulation materials. The change in the trend of the energy-efficient building materials comes due left of the "Housing for All" project and the smart city initiatives. Moreover, increasing consumer awareness about energy savings and environmental sustainability is expanding the market growth in the region.

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Jagney Dave
SNS Insider Pvt. Ltd
+1 315 636 4242

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