

Board Insulation Market Size, Share & Trends Analysis Report By Application (Building & Construction, Transportation, Industrial), By Region (North America, Europe), And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/B1263DE6E4FFEN.html>

Date: November 2024

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: B1263DE6E4FFEN

Abstracts

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Board Insulation Market Growth & Trends

The global board insulation market size is expected to reach USD 16.88 billion by 2030, registering a CAGR of 3.9% from 2025 to 2030, according to a new report by Grand View Research, Inc. The growth is attributed to the increasing utilization of advanced insulating materials from the construction & building and transportation industries. Increasing awareness regarding the environmental impact created by excess use of fuel has led to the development of new advanced materials to reduce heat losses. Boards are one of the materials used for increasing energy efficiency and reducing heat losses. Thus, the increased demand for advanced insulating materials from the building and transportation industry is expected to increase in demand for boards.

Governments and regulatory bodies worldwide have been implementing stricter energy efficiency standards for buildings to reduce greenhouse gas emissions and minimize energy consumption. These regulations often specify requirements for insulation levels and thermal performance in new construction and renovation projects. Board insulation plays a critical role in meeting these requirements by effectively reducing heat transfer through walls, roofs, and floors.

Increasing construction activities, especially in the residential, commercial, and

Industrial sectors drive the demand for insulation materials. As urbanization continues and the population grows, there's a need to construct more houses, offices, commercial spaces, and industrial buildings. Overall, increasing construction activities and the need to adhere to energy efficiency standards create a robust market for board insulation in the building and construction industry.

Major market players are emphasizing the use of sustainable materials for developing insulation materials such as EPS, XPS, and PUR. Manufacturers use recycled content to produce these materials. It also includes the usage of scrap-insulating materials, which results in reduced demand for new production. In addition, there has been widespread use of EPS type of material worldwide. This implies that EPS insulating material meets the highest environmental and social standards. These initiatives are expected to fuel the demand for sustainable insulating material, thereby fueling market growth.

Board Insulation Market Report Highlights

The building & construction segment led the market and accounted for the largest share of 67.0% in 2024. Boards are commonly used in exterior and interior wall applications.

Transportation is expected to grow significantly at 3.7% CAGR over the forecast period. In automotive insulation, boards reduce noise, vibration, and harshness levels inside the vehicle.

The Asia Pacific board insulation market dominated and accounted for 40.4% of global revenue in 2024. The market growth in this region can be attributed to its economic growth, increased energy prices, and building regulations.

The Middle East & Africa board insulation market is anticipated to grow significantly at a CAGR of 3.1% over the forecast period.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources
 - 1.3.4. Third-Party Perspectives
 - 1.3.5. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. BOARD INSULATION MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Parent Market Outlook
- 3.2. Board Insulation Market - Value Chain Analysis
 - 3.2.1. Manufacturing Trends
 - 3.2.2. Sales Channel Analysis
- 3.3. Technology Overview
- 3.4. Regulatory Framework
 - 3.4.1. Analyst Perspective
- 3.5. Board Insulation Market - Market Dynamics
 - 3.5.1. Market Driver Analysis
 - 3.5.2. Market Restraint Analysis
 - 3.5.3. Market Opportunity Analysis
 - 3.5.4. Industry Challenges
 - 3.5.5. Industry Analysis - Porter's
 - 3.5.5.1. Threat from New Entrant

- 3.5.5.2. Bargaining Power of Buyers
- 3.5.5.3. Competitive Rivalry
- 3.5.5.4. Threat of Substitutes
- 3.5.5.5. Bargaining Power of Suppliers
- 3.5.5.6. Substitute Material Analysis
- 3.5.6. PESTEL Analysis by SWOT
 - 3.5.6.1. Political Landscape
 - 3.5.6.2. Environmental Landscape
 - 3.5.6.3. Social Landscape
 - 3.5.6.4. Technology Landscape
 - 3.5.6.5. Economic Landscape
 - 3.5.6.6. Legal Landscape
- 3.5.7. Market Disruption Analysis

CHAPTER 4. BOARD INSULATION MARKET: PRODUCT ESTIMATES & TREND ANALYSIS

- 4.1. Key Takeaways
- 4.2. Product Movement Analysis and Market Share Analysis, 2024 & 2030
- 4.3. Board Insulation Market Estimates & Forecasts, By Application, 2018 - 2030
(Kilotons) (Kilotons) (USD Million)
 - 4.3.1. Building & Construction
 - 4.3.2. Transportation
 - 4.3.3. Industrial
 - 4.3.4. Others

CHAPTER 5. BOARD INSULATION MARKET: COUNTRY ESTIMATES & TREND ANALYSIS

- 5.1. Key Takeaways
- 5.2. Regional Movement Analysis and Market Share Analysis, 2024 & 2030
- 5.3. Board Insulation Market Estimates & Forecasts, By Region, 2018 - 2030 (Kilotons)
(USD Million)
- 5.4. North America
 - 5.4.1. North America Board Insulation Market Estimates & Forecasts, 2018 - 2030
(Kilotons) (USD Million)
 - 5.4.2. U.S.
 - 5.4.2.1. U.S. Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.4.3. Canada

5.4.3.1. Canada Board Insulation Market Estimates & Forecast, 2018 - 2030
(Kilotons) (USD Million)

5.4.4. Mexico

5.4.4.1. Mexico Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.5. Europe

5.5.1. Europe Board Insulation Market Estimates & Forecasts, 2018 - 2030 (Kilotons)
(USD Million)

5.5.2. UK

5.5.2.1. UK Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.5.3. Germany

5.5.3.1. Germany Board Insulation Market Estimates & Forecast, 2018 - 2030
(Kilotons) (USD Million)

5.5.4. France

5.5.4.1. France Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.5.5. Italy

5.5.5.1. Italy Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.5.6. Belgium

5.5.6.1. Belgium Board Insulation Market Estimates & Forecast, 2018 - 2030
(Kilotons) (USD Million)

5.5.7. Poland

5.5.7.1. Poland Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.6. Asia Pacific

5.6.1. Asia Pacific Board Insulation Market Estimates & Forecasts, 2018 - 2030
(Kilotons) (USD Million)

5.6.2. China

5.6.2.1. China Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.6.3. India

5.6.3.1. India Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.6.4. Japan

5.6.4.1. Japan Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons)
(USD Million)

5.7. Central & South America

5.7.1. Central & South America Board Insulation Market Estimates & Forecasts, 2018 - 2030 (Billion Liner Ft.) (Kilotons) (USD Million)

5.7.2. Brazil

5.7.2.1. Brazil Board Insulation Market Estimates & Forecast, 2018 - 2030 (Kilotons) (USD Million)

5.8. Middle East & Africa

5.8.1. Middle East & Africa Board Insulation Market Estimates & Forecasts, 2018 - 2030 (Kilotons) (USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Key Players, their Recent Developments, and their Impact on Industry

6.2. Key Company/Competition Categorization

6.3. Company Market Position Analysis

6.4. Company Heat Map Analysis

6.5. Strategy Mapping

6.6. Company Listing

6.6.1. Owens Corning

6.6.1.1. Company Overview

6.6.1.2. Financial Performance

6.6.1.3. Product Benchmarking

6.6.1.4. Strategic Initiatives

6.6.2. Rockwell International

6.6.2.1. Company Overview

6.6.2.2. Financial Performance

6.6.2.3. Product Benchmarking

6.6.2.4. Strategic Initiatives

6.6.3. Saint-Gobain

6.6.3.1. Company Overview

6.6.3.2. Financial Performance

6.6.3.3. Product Benchmarking

6.6.3.4. Strategic Initiatives

6.6.4. Knauf Insulation

6.6.4.1. Company Overview

6.6.4.2. Financial Performance

6.6.4.3. Product Benchmarking

6.6.4.4. Strategic Initiatives

6.6.5. Llyod insualtions India Ltd

- 6.6.5.1. Company Overview
- 6.6.5.2. Financial Performance
- 6.6.5.3. Product Benchmarking
- 6.6.5.4. Strategic Initiatives
- 6.6.6. Polybond insulation Pvt Ltd
 - 6.6.6.1. Company Overview
 - 6.6.6.2. Financial Performance
 - 6.6.6.3. Product Benchmarking
 - 6.6.6.4. Strategic Initiatives
- 6.6.7. Industrial insulation
 - 6.6.7.1. Company Overview
 - 6.6.7.2. Financial Performance
 - 6.6.7.3. Product Benchmarking
 - 6.6.7.4. Strategic Initiatives
- 6.6.8. BASF
 - 6.6.8.1. Company Overview
 - 6.6.8.2. Financial Performance
 - 6.6.8.3. Product Benchmarking
 - 6.6.8.4. Strategic Initiatives
- 6.6.9. Huntsman Corporation
 - 6.6.9.1. Company Overview
 - 6.6.9.2. Financial Performance
 - 6.6.9.3. Product Benchmarking
 - 6.6.9.4. Strategic Initiatives
- 6.6.10. Mitsui Chemicals, Inc.
 - 6.6.10.1. Company Overview
 - 6.6.10.2. Financial Performance
 - 6.6.10.3. Product Benchmarking
 - 6.6.10.4. Strategic Initiatives
- 6.6.11. Rogers Corporation
 - 6.6.11.1. Company Overview
 - 6.6.11.2. Financial Performance
 - 6.6.11.3. Product Benchmarking
 - 6.6.11.4. Strategic Initiatives
- 6.6.12. Duna
 - 6.6.12.1. Company Overview
 - 6.6.12.2. Financial Performance
 - 6.6.12.3. Product Benchmarking
 - 6.6.12.4. Strategic Initiatives

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