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# Global Insulation

November 2021



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# About This Report

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## Scope

This report forecasts to 2025 global demand for insulation by material, market, and major world region in nominal US dollars at the manufacturer level. Material segments include:

- foamed plastic
- fiberglass
- mineral wool
- small volume insulation materials such as reflective insulation, radiant barriers, and cellulose

Reported markets encompass:

- nonresidential building
- residential building
- industrial and plant equipment
- HVAC and air distribution
- appliances
- other markets such as transportation equipment, nonbuilding construction, and furniture

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, material, market, and regional demand (including material and market segments) are provided for 2010, 2015, and 2020. Finally, global production is segmented by major world region and provided for 2010, 2015, 2020, and 2025.

Granulated mineral wool used in ceiling tiles is not included in the scope of this report.

For any given historical year, US dollar amounts are obtained from values expressed in applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2020.

Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

## Sources

*Global Insulation* (FW60026) is based on a [comprehensive industry study](#) published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

## Industry Codes

**Table 10 | NAICS & SIC Codes Related to Insulation**

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
321219	Reconstituted wood product manufacturing	2493	Reconstituted wood products
326140	Polystyrene foam product manufacturing	3086	Plastics foam products
326150	Urethane & other foam product manufacturing, excluding polystyrene	3295	Minerals & earths, ground or otherwise treated
327992	Ground or treated mineral & earth manufacturing	3296	Mineral wool
327993	Mineral wool manufacturing		

Source: US Census Bureau

**Table 11 | HS Codes Related to Insulation**

HS Code	Definition
6806	Slag, rock wool, and similar mineral wools; exfoliated vermiculite, expanded clays, foamed slag, mixtures and articles of heat, sound insulating, or sound-absorbing mineral materials
680620	Exfoliated vermiculite, expanded clays, foamed slag, and similar expanded mineral materials (including intermixtures thereof)
680690	Minerals; mixtures and articles of heat-insulating, sound-insulating, or sound-absorbing mineral materials, other than those of heading no. 6811 or 6812 or of chapter 69
701939	Glass fibres; webs, mattresses, boards, and similar non-woven products excluding mats and thin sheets

Source: United Nations Statistics Division

## Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or  $r^2$ . The most stable data series relative to the trend carries an  $r^2$  value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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## Resources

### The Freedonia Group

*Global Insulation*

### Freedonia Industry Studies

*Ceilings*

*Global Acoustic Insulation*

*Global Ceilings*

*Global Drywall & Building Plaster*

*Global Foamed Plastic Insulation*

*Global Housing*

*Global HVAC Equipment*

*Global Industrial & OEM Insulation*

*Global Major Household Appliances*

*Global Prefabricated Housing*

*Global Roofing*

*Global Siding (Cladding)*

*Global Windows & Doors*

*HVAC Equipment*

*Insulation*

*Roofing*

*Siding*

*Windows & Doors*

### Freedonia Focus Reports

*Construction Chemicals: United States*

*Foamed Plastic Insulation: United States*

*Industrial & OEM Insulation: Canada*

*Industrial & OEM Insulation: Europe*

*Perlite & Vermiculite: United States*

*Plastic Foams: United States*

### Freedonia Custom Research

### Trade Publications

*Global Insulation*

*Insulation Outlook*

*Remodeling Magazine*

*The Journal of Light Construction*

*Walls & Ceilings*

## Agencies & Associations

American Chemistry Council  
Cellulose Insulation Manufacturers Association  
China Heat & Sound Insulation Materials Association  
European Insulation Manufacturers Association  
Eurostat  
Germany Federal Statistical Office  
Mineral Wool Insulation Manufacturers Association  
National Association of Home Builders  
National Bureau of Statistics of China  
National Insulation Association  
North American Insulation Manufacturers Association  
Polyurethane Foam Association  
Spray Polyurethane Foam Alliance  
Structural Insulated Panel Association  
United Nations Comtrade  
UNdata  
United States Census Bureau  
United States Department of Energy  
United States Environmental Protection Agency  
United States Green Building Council  
United States International Trade Commission