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Insulation: Europe

November 2021



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About This Report

Scope

This report forecasts to 2025 insulation demand and production in nominal US dollars at the manufacturer level in Europe. Total demand is segmented by material in terms of:

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

Total demand is also segmented by market as follows:

- nonresidential buildings
- residential buildings
- industrial and plant equipment
- HVAC/air distribution equipment
- appliances
- other markets such as transportation equipment, packaging, and furniture

To illustrate historical trends, total demand is provided in annual series from 2010 to 2020; production and the various segments are reported at five-year intervals for 2010, 2015, and 2020.

Demand in value terms is shown at the manufacturer level and excludes distributor and retailer markups. Granulated mineral wool used in ceiling tiles is not included in the scope of this report. Both thermal and acoustic insulation are 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.

Key macroeconomic indicators are also provided with quantified trends. 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.

For the purposes of this report, Europe encompasses the following countries:

Table 6 | Countries in Western Europe

| | | | |
|-----------------|-------------|---------------|---------------------------|
| Andorra | Germany* | Italy* | Portugal |
| Austria | Gibraltar | Jersey | Saint Pierre and Miquelon |
| Belgium | Greece | Liechtenstein | San Marino |
| Channel Islands | Greenland | Luxembourg | Spain* |
| Denmark | Guernsey | Malta | Sweden |
| Faeroe Islands | Iceland | Monaco | Switzerland |
| Finland | Ireland | Netherlands | United Kingdom* |
| France* | Isle of Man | Norway | Vatican City |

*Major insulation markets

Source: The Freedonia Group

Table 7 | Countries in Eastern Europe

| | | |
|------------------------|------------|----------|
| Albania | Hungary | Romania |
| Belarus | Latvia | Russia* |
| Bosnia and Herzegovina | Lithuania | Serbia |
| Bulgaria | Macedonia | Slovakia |
| Croatia | Moldova | Slovenia |
| Czech Republic | Montenegro | Ukraine |
| Estonia | Poland | |

*Major insulation market

Source: The Freedonia Group

Sources

Insulation: Europe (FE60026) is based on *Global Insulation*, 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 and non-governmental 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 8 | 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

Table 9 | NACE Codes Related to Insulation

| NACE Code | Definition |
|-----------|----------------------------------|
| 22.2 | Manufacture of plastics products |
| 23.1.4 | Manufacture of glass fibres |

Source: European Commission

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

Commercial Building Construction: United States

Construction: United States

COVID-19 Market Impact Analysis

Energy: United States

Global Demographics

Global Macroeconomy

Manufacturing: United States

Motor Vehicles: Europe

Paint & Coatings: Europe

Perlite & Vermiculite: United States

Plastic Foams: United States

Polystyrene: United States

Polyurethane: United States

Transport Equipment: United States

Freedonia Custom Research

Trade Publications

Global Insulation

Insulation Outlook

Remodeling Magazine

The Journal of Light Construction

Walls & Ceilings

Agencies & Associations

Cellulose Insulation Manufacturers Association

European Insulation Manufacturers Association

Eurostat

Germany Federal Statistical Office

International Monetary Fund

Mineral Wool Insulation Manufacturers Association

Organisation for Economic Co-operation and Development

Polyurethane Foam Association

Spray Polyurethane Foam Alliance

Structural Insulated Panel Association

United Nations Comtrade

UNdata

World Bank