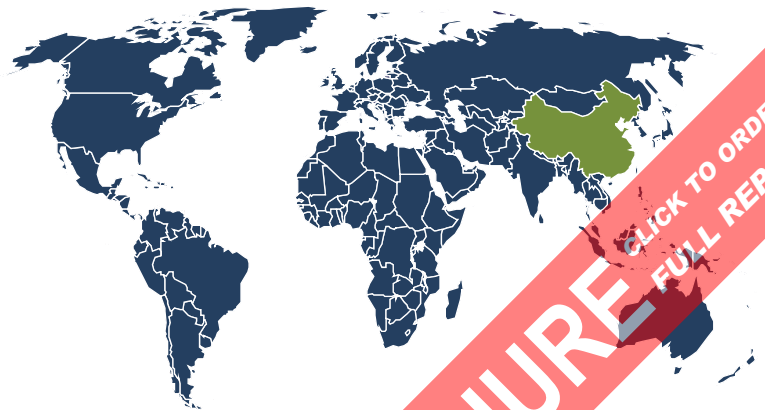




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Insulation: China

November 2021



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About This Report

Scope

This report forecasts to 2025 insulation (绝缘材料) demand and production in nominal US dollars at the manufacturer level in China. Total demand is segmented by material in terms of:

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

Total demand is also segmented by market as follows:

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

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.

Sources

Insulation: China (FC60026) 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 6 | 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

Commercial Building Construction: United States

Construction Machinery: China

Construction: United States

COVID-19 Market Impact Analysis

Energy: United States

Flooring: China

Foamed Plastic Insulation: United States

Global Demographics

Global Macroeconomy

Housing: China

HVAC Equipment: China

Manufacturing: United States

Paint & Coatings: China

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
China Heat & Sound Insulation Materials Association
International Monetary Fund
Mineral Wool Insulation Manufacturers Association
National Bureau of Statistics of China
National Insulation 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