

# **Microporous Insulation Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Rigid Boards & Panels, Flexible Panels), By Application (Industrial, Energy & Power, Oil & Gas, Others), By Region, By Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Microporous Insulation Market was valued at USD 170.3 million in 2024 and is projected to reach USD 231.6 million by 2030, growing at a CAGR of 5.1% through the forecast period. The market is experiencing growth driven by increasing demand for energy-efficient and high-performance insulation across industries such as oil & gas, power generation, metallurgy, and chemical processing. Microporous insulation is preferred for its excellent thermal resistance, space-saving properties, and performance under extreme temperatures. Government initiatives focused on energy conservation and emission reduction are further propelling the market. Additionally, the automotive and aerospace sectors are adopting microporous insulation due to its lightweight, compact design that enhances fuel efficiency and thermal safety. In electric vehicles, it plays a key role in managing battery temperature and supporting exhaust systems, contributing to overall performance and safety.

### Key Market Drivers

#### Rising Demand for Energy Efficiency and Thermal Management Across Industries

A key factor driving the global microporous insulation market is the growing emphasis on energy efficiency and effective thermal management in critical industrial sectors. Due to their extremely low thermal conductivity, microporous insulation materials significantly

reduce heat loss, thereby enhancing energy savings and operational safety. These features are particularly valuable in high-temperature environments such as cement, metallurgy, oil & gas, power generation, and chemical industries, where energy loss translates to increased costs.

To meet stringent environmental regulations and sustainability goals, companies are adopting high-performance insulation materials. Regulatory frameworks, including the European Union's energy directives and U.S. Department of Energy's efficiency standards, are encouraging the use of such advanced solutions. Applications span refineries, power plants, turbines, boilers, and piping systems, where minimizing thermal losses is critical for both compliance and efficiency.

## Key Market Challenges

### High Production Costs and Price Sensitivity

A major obstacle in the global microporous insulation market is the elevated cost of production. These materials require specialized manufacturing processes involving high-grade inputs such as fumed silica, reinforcing fibers, and opacifiers. The stringent quality standards needed to ensure ultra-low thermal conductivity and durability lead to substantially higher production costs when compared to traditional insulation options like fiberglass or mineral wool.

This cost challenge is particularly pronounced in developing markets and cost-sensitive sectors, where more affordable alternatives are often preferred despite their lower performance. Additionally, industries operating under tight capital constraints may struggle to justify the higher initial investment, even when long-term savings are evident. Limited raw material availability and dependency on specialized manufacturing equipment also contribute to supply constraints and cost fluctuations.

## Key Market Trends

### Integration of Microporous Insulation in Electric Vehicles (EVs) and Renewable Energy Systems

An emerging trend in the global microporous insulation market is its expanding application in electric vehicles and renewable energy technologies. As the global shift toward clean energy and sustainable mobility accelerates, there is growing demand for materials that enhance efficiency, safety, and space utilization—areas where

microporous insulation offers considerable advantages.

In EVs, microporous insulation is used in battery thermal management systems, heat shields, and electric drivetrains to maintain stable operating temperatures and improve safety and performance. Its lightweight and compact nature makes it especially suitable for space-constrained EV configurations. As global policies increasingly support EV adoption through incentives and emissions regulations, the need for reliable thermal solutions like microporous insulation is expected to grow rapidly.

## Key Market Players

Morgan Advanced Materials plc

Unifrax LLC

Johns Manville Corporation

Promat International NV

Thermal Ceramics (a division of Morgan Advanced Materials)

ZircoCor GmbH

Elmelin Ltd.

Etex Group

## Report Scope:

In this report, the Global Microporous Insulation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

## Microporous Insulation Market, By Product:

Rigid Boards & Panels

Flexible Panels

Microporous Insulation Market, By Application:

Industrial

Energy & Power

Oil & Gas

Others

Microporous Insulation Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

South America

Brazil

Colombia

Argentina

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Microporous Insulation Market.

Available Customizations:

Global Microporous Insulation Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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