

Global Ultralow Thermal Conductivity Microporous Insulation Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Ultralow Thermal Conductivity Microporous Insulation market size is predicted to grow from US\$ 1395 million in 2025 to US\$ 2148 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

Ultralow Thermal Conductivity Microporous Insulation is a high-performance thermal insulation material composed primarily of amorphous silica, opacifiers, and reinforcing fibers engineered to create a highly porous microstructure that dramatically reduces heat transfer by conduction, convection, and radiation. It offers extremely low thermal conductivity, high temperature resistance, lightweight characteristics, and thin-profile insulation performance, making it widely used in industrial furnaces, metallurgical equipment, petrochemical systems, aerospace, energy storage, and high-efficiency thermal barrier applications.

The ultralow thermal conductivity microporous insulation industry chain begins upstream with suppliers of amorphous silica, opacifiers, reinforcing fibers, hydrophobic agents, and specialty additives; progresses midstream through manufacturers that blend raw materials, create microcellular structures, perform vacuum drying, press materials into panels, boards, or blankets, and conduct thermal, mechanical, and fire-resistance testing; and moves downstream to furnace OEMs, petrochemical equipment producers, aerospace contractors, EV battery system integrators, and industrial operators who install microporous insulation to reduce heat loss, improve energy efficiency, enhance safety, and enable compact high-temperature system designs.

Current and upcoming projects include expanded microporous insulation panel production in China, Europe, and the Middle East to serve growing petrochemical and

steel industry needs; new flexible microporous blanket manufacturing lines for EV battery thermal management; R&D centers focused on ultralow-conductivity compositions and nano-engineered silica structures; global investments in automated molding and vacuum-drying facilities; partnerships between furnace OEMs and insulation suppliers to co-develop high-efficiency refractory systems; and greenfield plants aimed at scaling hydrophobic microporous materials for aerospace, LNG, and high-temperature industrial applications.

2025 Global Market Average Gross Profit Margin: 30%.

United States market for Ultralow Thermal Conductivity Microporous Insulation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Ultralow Thermal Conductivity Microporous Insulation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Ultralow Thermal Conductivity Microporous Insulation is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Ultralow Thermal Conductivity Microporous Insulation players cover Promat HPI, Morgan Advanced Materials, Isoleika S. Coop, Johns Manville Corporation, Unifrax LLC, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Ultralow Thermal Conductivity Microporous Insulation Industry Forecast" looks at past sales and reviews total world Ultralow Thermal Conductivity Microporous Insulation sales in 2025, providing a comprehensive analysis by region and market sector of projected Ultralow Thermal Conductivity Microporous Insulation sales for 2026 through 2032. With Ultralow Thermal Conductivity Microporous Insulation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ultralow Thermal Conductivity Microporous Insulation industry.

This Insight Report provides a comprehensive analysis of the global Ultralow Thermal Conductivity Microporous Insulation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest

development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Ultralow Thermal Conductivity Microporous Insulation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ultralow Thermal Conductivity Microporous Insulation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ultralow Thermal Conductivity Microporous Insulation and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ultralow Thermal Conductivity Microporous Insulation.

This report presents a comprehensive overview, market shares, and growth opportunities of Ultralow Thermal Conductivity Microporous Insulation market by product type, application, key players and key regions and countries.

Segmentation by Type:

Amorphous Silica Material Composition

Silica + Opacifier Material Composition

Others

Segmentation by Product Form:

Microporous Insulation Panels

Microporous Insulation Boards

Microporous Flexible Blankets

Microporous Powder or Granules

Segmentation by Temperature Resistance Class:

Standard High-Temperature Grade (?1000°C)

Industrial Grade for Furnaces (1000–1200°C)

Ultra-High-Temperature Grade (>1200°C)

Segmentation by Application:

Foundry and Steel

Petrochemical

Cement

Glass

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Promat HPI

Morgan Advanced Materials

Isoleika S. Coop

Johns Manville Corporation

Unifrax LLC

Nichias Corporation

Techno Physik Engineering GmbH

Elmelin Ltd

Unicorn Insulations Ltd

Thermodyne

Kingspan Insulation LLC

Vitcas

Final Advanced Materials S?rl

MAJUS Ltd

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