

Global Phenolic Foam Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phenolic Foam market size is expected to reach \$ 2267 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032). Phenolic Foam is a high-performance insulation and fire-protection material produced from phenolic resin through controlled foaming and curing, offering excellent flame resistance, low smoke and toxicity, and stable thermal insulation. It is widely used in building exterior-wall insulation systems, HVAC and cold-chain ducting, petrochemical and energy-equipment insulation, and transportation sectors such as rail and marine applications requiring elevated fire-safety standards. Upstream inputs include phenolic resin, blowing agents, curing agents, reinforcing fibers, flame retardants, modification additives, and composite facings, along with dedicated foaming and lamination equipment. Downstream customers include building insulation contractors, HVAC/cold-chain equipment manufacturers, petrochemical and energy companies, and transport-equipment integrators. Industry estimates indicate that in 2024 global capacity for Phenolic Foam was around 106 million square meters, with shipments near 88.4 million square meters, an average selling price of roughly USD 16 per square meter, and gross margins of about 30-40%, underscoring solid profitability in high-performance insulation materials. Market opportunities arise from strengthened energy-efficiency and fire-safety regulations in construction, upgrades of HVAC and cold-chain infrastructure, increasing insulation requirements in petrochemical and energy sectors, and global policy support for green and high-safety building materials, all of which sustain long-term demand for Phenolic Foam.

The global Phenolic Foam market is experiencing steady growth, supported by stricter building energy-efficiency requirements, reinforced fire-safety regulations, and expanding HVAC and cold-chain infrastructure. In building exterior insulation, duct insulation, industrial thermal protection, and transport applications requiring high fire resistance, phenolic materials have become increasingly favored due to their superior

flame retardancy, low smoke toxicity, and strong insulation performance. While conventional materials such as polyurethane, mineral wool, and fiberglass maintain scale advantages, Phenolic Foam continues to gain share in applications where both insulation and fire performance are critical.

Future development will focus on improved stability, enhanced standardization, and system-level integration. Advancements in material modification—including fiber reinforcement, resin-system optimization, and composite facings—are improving mechanical strength, crack resistance, dimensional stability, and durability. Alongside this, construction is moving toward prefabrication and modularization, enabling Phenolic Foam to evolve from a single insulation board into comprehensive system solutions such as composite panels, integrated insulation-decoration boards, and standardized ducting systems. Supported by green-building initiatives, low-carbon policy frameworks, and the upgrade of cold-chain infrastructure, Phenolic Foam is expected to expand its penetration in public buildings, infrastructure projects, and industrial energy systems. Market drivers arise from regulatory upgrades, application evolution, and changes in end-user demand. Strengthened building codes regarding fire classification and insulation performance increase pressure on traditional materials, while growing demand for non-combustible insulation supports long-term market potential. Rapid development in cold-chain logistics, data centers, healthcare buildings, and advanced manufacturing increases consumption of duct and equipment insulation. Additionally, global decarbonization trends are encouraging industries to adopt materials with higher thermal efficiency and lower environmental impact across the lifecycle, reinforcing sustained demand for Phenolic Foam.

However, the industry faces challenges such as production consistency issues, material brittleness, installation adaptability, raw-material cost volatility, and uneven market standardization. Phenolic systems are sensitive to foaming, curing, and lamination processes, resulting in variability in product quality among suppliers. In certain regions, established supply chains and entrenched construction practices for traditional materials slow adoption. Furthermore, increasingly stringent environmental and green-building certification requirements place additional pressures on manufacturers to enhance performance while managing costs, requiring continuous technological and operational improvements.

This report studies the global Phenolic Foam production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phenolic Foam and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phenolic Foam that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phenolic Foam total production and demand, 2021-2032, (K Sqm)

Global Phenolic Foam total production value, 2021-2032, (USD Million)

Global Phenolic Foam production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Phenolic Foam consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Phenolic Foam domestic production, consumption, key domestic manufacturers and share

Global Phenolic Foam production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Phenolic Foam production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Phenolic Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Phenolic Foam market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kingspan, Asahi Kasei, LG Hausys, Fukuvi, Unilin(Xtratherm), Resine Isolanti, Teqtix Phenolic Solutions, Fujian Ten-lead Advanced Material, Jinan Holy Spring, Langfang Kelier Chemical Building Material Co., Ltd., etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Phenolic Foam market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sqm) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Phenolic Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phenolic Foam Market, Segmentation by Type:

Insulation Thickness: $\leq 40\text{mm}$

Insulation Thickness: 40-80mm

Insulation Thickness: >80mm

Global Phenolic Foam Market, Segmentation by Form:

Phenolic Foam Insulation Boards

Composite Phenolic Panels (Al-foil / Fiberglass / Metal-faced)

Phenolic Air Duct Panels

Other

Global Phenolic Foam Market, Segmentation by Technology:

Standard Foamed Phenolic Materials

Fiber-Reinforced Phenolic Foam

Other

Global Phenolic Foam Market, Segmentation by End-use:

Building

HVAC

Other

Global Phenolic Foam Market, Segmentation by Application:

Residential

Commercial

Companies Profiled:

Kingspan

Asahi Kasei

LG Hausys

Fukuvi

Unilin(Xtratherm)

Resine Isolanti

Teqtix Phenolic Solutions

Fujian Ten-lead Advanced Material

Jinan Holy Spring

Langfang Kelier Chemical Building Material Co., Ltd.

Tengzhou Huahai New Thermal Insulation Material

Treasure New Material

Key Questions Answered:

1. How big is the global Phenolic Foam market?
2. What is the demand of the global Phenolic Foam market?
3. What is the year over year growth of the global Phenolic Foam market?
4. What is the production and production value of the global Phenolic Foam market?
5. Who are the key producers in the global Phenolic Foam market?
6. What are the growth factors driving the market demand?

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