

Global Expandable Graphite Market 2024

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Abstracts

Expandable graphite is a form of stratified graphite that incorporates acids between its layers. Upon exposure to heat, these acids decompose to release gases, causing the graphite layers to expand. This expansion process effectively inhibits the spread of fire by obstructing the oxygen supply to the flames. Owing to its distinctive physical and chemical characteristics, expandable graphite serves as an exceptionally efficient flame-retardant material. It operates by discharging gases at elevated temperatures, which form a protective barrier between the flame and the combustible material, thereby either preventing ignition or significantly retarding the propagation of fire.

Within the realm of applications, the flame retardant segment has emerged as the predominant market share holder, attributed to its widespread adoption across multiple end-user industries including building and construction, textiles, and the paints and coatings sector. The market for the flame retardant segment was assessed at 33.0 thousand tons in 2023, with projections indicating growth to 55.8 thousand tons by 2029. This corresponds to a Compound Annual Growth Rate (CAGR) of 7.8% throughout the forecast period. The surge in demand for flame retardant applications can be largely attributed to regulatory measures enacted by the European Union and China, mandating fire-resistant specifications for buildings. Additionally, the prohibition of traditional brominated flame retardants by the Chinese government has further propelled the market demand for expandable graphite.

The Asia-Pacific region holds the dominant position in the expandable graphite market, driven by substantial demand from various end-user sectors such as coatings and polymers, particularly from countries like China, India, Japan, and South Korea. China stands out as the world's leading producer of expandable graphite. The market segment for expandable graphite in the Asia-Pacific region was estimated at 41.4 thousand tons in 2023, and it is anticipated to ascend to 71.0 thousand tons by 2029, marking a CAGR of 8.0% during the forecast period.

Yichang Xincheng Graphite Co. Ltd leads the global market as the premier manufacturer and supplier of expandable graphite, boasting ownership of four graphite mines. The company operates a singular factory in China, dedicated to the production of both non-sulfur and low-sulfur expanded graphite.

Metachem Manufacturing Company Pvt. Ltd ranks second in terms of production capacity, which stands at 2,000 metric tons. Notably, 90% of its output is exported to major economies including the United Kingdom, the United States, Germany, France, Japan, and Belgium, highlighting its significant international market presence.

This comprehensive industry report provides market estimates and forecasts, accompanied by a detailed examination of the end-user, and region aspects. It delivers a quantitative analysis of the market, empowering stakeholders to leverage existing market opportunities. Furthermore, the report identifies key segments for potential opportunities and strategies, drawing insights from market trends and the approaches of leading competitors.

The global baby bottle market has been extensively analyzed by categorizing it according to various sub-segments in order to provide accurate forecasts of industry size and assess trends within specific areas.

The global market for expandable graphite can be segmented by end-user: flame retardants, flexible coils, conductive additives, metallurgy, graphene. Flame retardants was the largest revenue contributor to the global expandable graphite market, representing 45.1% of the market in 2023. During the forecast period, the flame retardants segment is projected to witness the highest growth rate.

Expandable graphite market is further segmented by region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. Asia-Pacific was the largest revenue contributor to the global expandable graphite market, representing 56.7% of the market in 2023. During the forecast period, Asia-Pacific is projected to witness the highest growth rate.

The global expandable graphite market report offers detailed information on several market vendors, including Yichang Xincheng Graphite Co., Ltd., GrafTech International Ltd., SGL Carbon SE, Qingdao Jinhui Graphite Co., Ltd., Qingdao Yanhai Carbon Materials Co., Ltd., Qingdao Tianfeng Graphite Co., Ltd., Qingdao Yanxin Graphite Products Co., Ltd., Asbury Carbons, Inc., James Durrans & Sons Ltd., Graphit

Kropfmühl GmbH, Qingdao Tianheda Graphite Co., Ltd., Qingdao Haida Graphite Co., Ltd., Nippon Graphite Group, Shanghai Putailai New Energy Technology Co., Ltd., Anhui Tatfook Technology Co., Ltd., Shenzhen XFH Technology Co., Ltd., Rockleigh Industries Inc., NeoGraf Solutions, LLC, Tirupati Graphite plc, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Why Choose This Report

Gain a reliable outlook of the global expandable graphite market forecasts from 2024 to 2030 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

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Market Segments Covered in Global Expandable Graphite Industry Analysis:

i.) End-user

Flame retardants

Flexible coils

Conductive additives

Metallurgy

Graphene

ii.) Region

North America

Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

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