

Flame Retardants Market by Type (Aluminum Trihydrate, Antimony Oxide, Brominated), Application (Epoxy, Polyolefin, Unsaturated Polyester), End-Use Industry (Building & Construction, Electronics & Appliances), and Region - Global Forecast to 2030

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Report description:

The global flame retardants market size is projected to reach USD 10.52 billion by 2030 from USD 7.73 billion in 2024, at a CAGR of 5.32 %. Their usage is widespread in building & construction, electronics, automotive & transportation, textiles, and wire & cable industries, where fire prevention is a critical requirement. The main function of flame retardants is to stop flammability and limit the fire spread in materials, making them essential for enhancing safety standards in diverse industries. As international fire safety standards are getting more stringent and the issue of risk mitigation becomes more prominent, industries are becoming more inclined towards flame-retardant solutions to meet safety norms and save lives and assets. Increased use of fire-resistant materials is one of the key drivers of growing the market for flame retardants.

<https://www.marketsandmarkets.com/Images/flame-retardant-chemicals-market-Overview.webp>

"Brominated segment accounted for the second-largest market share of the flame retardants market, in 2024"

Brominated flame retardants hold the second-largest share of the global flame retardants market, in terms of value, in 2024. This is fueled by their high flame suppression efficiency, cost-effectiveness, and compatibility with a wide range of polymers such as polystyrene, polyurethane, and epoxy. They are extensively applied in electronics & appliances, building & construction materials, and textiles, where reliable performance is necessary to meet strict fire safety regulations. Their strong functional efficiency and established use in vital applications continue to support their substantial market position, despite increasing regulatory restrictions in some regions due to environmental concerns.

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"Unsaturated polyesters segment was the third largest application of the global flame retardants market, in terms of value, in 2024."

In terms of value, the unsaturated polyesters segment was the third-largest application of the global flame retardants market in 2024. Its widespread use in automotive and construction components, where adherence to fire safety standards is crucial, drives this dominance. These resins are inherently flammable, necessitating the incorporation of flame retardants to meet stringent regulatory standards. The expansion of this segment is also driven by the growing use of fiber-reinforced composites and molded components in industrial and infrastructure applications, where flame retardant performance is critical to ensure safety and long life.

"Automotive & transportation industry was the third largest end-use industry of flame retardants market, in terms of value, in 2024."

The automotive & transportation industry was the third-largest end-use industry in the global flame retardants market, in terms of value, in 2024. This is heavily attributed to the growing safety mandates and expanding use of lightweight, flammable materials like plastics and composites in vehicle interiors and electrical systems. The rising demand for electric vehicles (EVs), which need advanced thermal management and fire safety solutions for battery systems and wiring, further contributed to the dependence of the sector on flame retardants. Stringent fire safety mandates in commercial vehicles, aviation, and railway transport also encouraged steady usage of flame retardant material.

"Western Europe was the second largest region in the flame retardants market, in terms of value, in 2024."

Western Europe was the second-largest market in the global flame retardants market in terms of value, which was dominated by its advanced regulatory framework for fire protection in industries such as sectors like construction, electronics, automotive, and textiles. The region's strong manufacturing industry, especially in Germany, France, and Italy, and early adoption of non-halogenated and eco-friendly flame retardants also underpins demand. Moreover, the influence of major industry players and ongoing R&D in flame retardant technologies has bolstered the strength of Western Europe as a global player.

-□By Company Type: Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

-□By Designation: Directors - 50%, Managers - 30%, and Others - 20%

-□By Region: North America - 40%, Europe - 35%, Asia Pacific - 20%, Rest of World - 5%

The key players profiled in the report include Albemarle Corporation (US), ICL Group Ltd. (Israel), LANXESS AG (Germany), J.M. Huber Corporation (US), Nabaltec AG (Germany), BASF SE (Germany), ADEKA Corporation (Japan), Avient Corporation (US), Clariant AG (Switzerland), and Italmatch Chemicals S.p.A. (Italy).

Research Coverage

This report segments the market for flame retardants based on type, application, end-use industry, and region and provides estimations of value (USD Million) for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, services, and key strategies, associated with the market for flame retardants.

Reasons to Buy this Report

This research report is focused on various levels of analysis - industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the flame retardants market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights into the following points:

-□Market Penetration: Comprehensive information on flame retardants offered by top players in the global market

-□Analysis of key drivers (Increasing number of fire accidents, stringent fire safety regulations, and growth of end-use industries), restraints (stringent regulations regarding use of conventional flame retardants, high loading levels of mineral-based flame

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retardants alter properties of final products, and the use of harmful chemicals in flame retardants), opportunities (development of more effective synergist compounds, rising demand for wires & cables, and rising demand for non-halogenated and sustainable flame retardants), and challenges (supply challenges from Asia Pacific and growing emphasis on environmental protection and sustainability) influencing the growth of flame retardants market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the flame retardants market

-□Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for flame retardants across regions.

-□Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global flame retardants market

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the flame retardants market

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Flame Retardants Market by Type (Aluminum Trihydrate, Antimony Oxide, Brominated), Application (Epoxy, Polyolefin, Unsaturated Polyester), End-Use Industry (Building & Construction, Electronics & Appliances), and Region - Global Forecast to 2030

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