

India Flame Retardants Market By Type (Halogenated v/s Non-Halogenated), By Application (Polyolefins, Epoxy Resins, PVC, Rubber, Others), By End User Industry (Building & Construction, Electronic & Appliances, Automotive & Transportation, Others), By Region, Competition Forecast and Opportunities, 2028F

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Abstracts

India Flame Retardants Market is anticipated to increase at an impressive rate in the forecast period. Flame retardant is a chemical agent applied to materials to lessen the risk of the product catching fire and also to delay the overall combustion process. For the last 30 years, they have been employed in numerous consumer and industrial items to reduce the potential of materials to ignite. Thus, they are in high demand by end-user industries to make their products fire-resistant.

Fire dangers are one of the major causes of accidents in both the residential and commercial sectors in India. Most of these fire outbreaks are caused by a lack of safety equipment and training to control the fire outbreak quickly. According to a report, India experienced 1.6 million fire incidents in 2021, in which 27,027 people lost their lives. Several government regulations are made to control problems to stop causality in fire outbreak incidents. This has, in turn, increased the demand for flame retardants from various end-user industries, such as Building & Construction, Electronics & Appliances, Automotive & Transportation, Textile, and Aerospace for making different products like carpets, computers, laptops, electrical wires, seat covers, and others. All these factors are going to propel the growth of the India Flame Retardants Market in the projected period.

Increasing Demand from the Automobile and Construction Sectors

Flame retardants are chemicals added to materials to prevent or delay fire spread. Additionally, an initiative taken by the government to raise awareness among the population about different chemicals which can prevent fire is further expected to drive market growth. The National Building Code of India contains comprehensive guidelines for the construction, maintenance, and fire safety of the building and infrastructures to prevent casualties. In the past, most fire cases have occurred at commercial & residential buildings, and the reason for the outbreak has been mostly short circuits. Hence, a special type of chemical is coated over the fire-vulnerable objects in the house to reduce the possibility of fire. Thus, the demand from the construction industries for insulating materials like Tricresyl phosphate (TCP), Cresyl diphenyl phosphate, and Polyols as a preventive measure is positively impacting the market's growth. In addition, the use of fire-retardant foam, gel, and powder in fire extinguishers in commercial and residential places is driving the need for flame retardants in the market.

Flame retardants are also essential in automobiles for engineered thermoplastics functional and structural elements that provide solutions for fire safety in polyolefin or styrene batteries. According to Invest India, the Indian automobile industry manufactured almost 23 million vehicle units, including Passenger Vehicles, Commercial Vehicles, Three Wheelers, Two Wheelers, and Quadricycles, from April 2021 to March 2022. The automobile sector accounts for 7.1% of India's GDP. Flame retardants help in ensuring vehicle safety during or after manufacturing and are also used to provide superior thermal insulation. Foams consisting of stiff polyurethane, crosslinked polyolefins, or crosslinked plasticized mixes of PVC and nitrile rubber are the most often used materials for insulation purposes. This is going to drive the market share of the flame retardants market in India.

Impact of Flame Retardants on the Health is a Key Restraint for the Market

Flame retardants do not degrade quickly and are present in the environment for a long time. They can also bioaccumulate or pile up over time in humans' and animals' bodies, having an adverse impact on health. Flame retardants can enter the body through many routes, including food, consumer items in the home, automobile, airline, office, and house dust. Thus, its harmful effect on health obstructs the flame-retardant market growth. Furthermore, the high cost of the product is also acting as an obstruction to market growth.

Product Enhancement is Driving the Market Growth

The ongoing development in enhancing the uses of the product and decreasing the poisoning effect of the product is the major factor in sustaining the product for the long run. Graphene nanotubes impart functionality to textiles without conceding other important characteristics such as oil and chemical resistance or flame retardance. Thus, nanotechnology, growing awareness, and the growth of e-vehicles are expected to play a crucial role in improving the performance of a flame-retardant market in the anticipated period.

Market Segmentation

India flame retardants market is segmented based on type, application, and end-user. Based on type, the market is bifurcated into halogenated and non-halogenated. Based on halogenated flame retardants, the market is divided into brominated, chlorinated phosphates, antimony trioxides, and others. Based on non-halogenated flame retardants, the market is divided into aluminum hydroxide, magnesium Di hydroxide, phosphorous-based, and others. Based on application, the market is divided into polyolefins, epoxy resins, PVC, rubber, and others. Based on end-user, the market is divided into building & construction, electronics & appliances, automotive & transportation, and others.

Market Players

Clariant Chemicals India Ltd, LANXESS India, Hindalco Industries Limited, KPL International Limited, Acuro Organics Limited, Nano Tech Chemical Brothers, Niknam Chemicals Private Limited, Albemarle (Rockwood Lithium India Pvt. Ltd.) are some of the key players operating in the India Flame Retardants Market.

Report Scope:

In this report, India flame retardants market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

India Flame Retardants Market, by type:

Halogenated

Non-Halogenated

India Flame Retardants Market, by halogenated flame retardants:

- Brominated
- Chlorinated Phosphates
- Antimony Trioxides
- Others

India Flame Retardants Market, by non-halogenated flame retardants:

- Aluminum Hydroxide
- Magnesium Di hydroxide
- Phosphorous Based
- Others

India Flame Retardants Market, by application:

- Polyolefins
- Epoxy Resins
- PVC
- Rubber
- Others

India Flame Retardants Market, by end-user:

- Building & Construction
- Electronic & Appliances
- Automotive & Transportation

Others

India Flame Retardants Market, by region

North

West

East

South

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in India flame retardants market.

Available Customizations:

With the given market data, TechSci 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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