

# **Global Flame Retardants for Aerospace Plastics Market Size Study, by Product (Antimony Oxide, Aluminum Trihydrate, Organophosphates, Boron Compounds) by Application (Carbon Fiber Reinforced Plastic (CFRP), Glass Reinforced Plastic (GRP), Polycarbonate, Thermoset Polyimide, Acrylonitrile Butadiene Styrene (ABS), Acetal/Polyoxymethylene (POM), Epoxies, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Flame Retardants for Aerospace Plastics Market, valued at approximately USD 31.15 billion in 2023, is projected to grow at a significant CAGR of 7.00% during the forecast period from 2024 to 2032. Flame retardants have become indispensable in aerospace plastics due to their critical role in ensuring safety and compliance with stringent fire-resistance standards. These additives provide enhanced thermal stability, delayed ignition, and reduced flame spread, enabling the development of safer, high-performance aerospace materials.

The market growth is driven by the increasing adoption of lightweight composite materials in aerospace applications. With the rising demand for fuel-efficient and environmentally sustainable aircraft, the usage of advanced plastics reinforced with flame retardants has surged. In particular, products like antimony oxide and aluminum trihydrate are witnessing high demand due to their proven efficacy in enhancing fire retardancy.

Innovations in organophosphate-based flame retardants and eco-friendly formulations

are further propelling market growth. Additionally, the expansion of global air travel and military aviation sectors is creating a robust demand for materials that can withstand extreme conditions while adhering to strict safety regulations. However, challenges such as fluctuating raw material costs and regulatory complexities could hinder market progression. Despite these challenges, the development of novel flame retardant chemistries tailored for aerospace-grade polymers offers significant growth opportunities.

Regionally, North America leads the market, driven by a mature aerospace industry and stringent safety standards. Europe follows closely, supported by advancements in aerospace manufacturing technologies and sustainability initiatives. Meanwhile, the Asia-Pacific region is expected to witness the fastest growth, fueled by rapid industrialization, increased air passenger traffic, and expanding defense budgets in countries like China, India, and Japan. Emerging regions such as Latin America and the Middle East & Africa are also gaining traction due to rising investments in aviation infrastructure.

Major market players included in this report are:

BASF SE

Albemarle Corporation

Clariant AG

Dow Inc.

ICL Group

Lanxess AG

RTP Company

Huber Engineered Materials

FRX Polymers Inc.

Chemtura Corporation

Italmatch Chemicals

Nabaltec AG

Akzo Nobel N.V.

Celanese Corporation

Dupont de Nemours Inc.

The detailed segments and sub-segment of the market are explained below:

By Product:

Antimony Oxide

Aluminum Trihydrate

Organophosphates

Boron Compounds

By Application:

Carbon Fiber Reinforced Plastic (CFRP)

Glass Reinforced Plastic (GRP)

Polycarbonate

Thermoset Polyimide

Acrylonitrile Butadiene Styrene (ABS)

Acetal/Polyoxymethylene (POM)

Epoxies

Others

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Comprehensive market estimates and forecasts spanning from 2022 to 2032.

In-depth segmental and regional analyses showcasing key growth opportunities.

Competitive landscape evaluation, highlighting strategies and innovations by leading players.

Strategic insights and recommendations for market stakeholders.

Detailed demand-side and supply-side analyses to understand market dynamics.

## Contents

### **CHAPTER 1. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET EXECUTIVE SUMMARY 1.1. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET SIZE & FORECAST (2022-2032)**

- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product
    - 1.3.1.1. Antimony Oxide
    - 1.3.1.2. Aluminum Trihydrate
    - 1.3.1.3. Organophosphates
    - 1.3.1.4. Boron Compounds
  - 1.3.2. By Application
    - 1.3.2.1. Carbon Fiber Reinforced Plastic (CFRP)
    - 1.3.2.2. Glass Reinforced Plastic (GRP)
    - 1.3.2.3. Polycarbonate
    - 1.3.2.4. Thermoset Polyimide
    - 1.3.2.5. Acrylonitrile Butadiene Styrene (ABS)
    - 1.3.2.6. Acetal/Polyoxymethylene (POM)
    - 1.3.2.7. Epoxies
    - 1.3.2.8. Others
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET DEFINITION AND RESEARCH ASSUMPTIONS 2.1. RESEARCH OBJECTIVE**

- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition

- 2.3.3.5. Economic Viability (Consumer's Perspective)
- 2.3.4. Demand Side Analysis
  - 2.3.4.1. Regulatory Frameworks
  - 2.3.4.2. Technological Advancements
  - 2.3.4.3. Environmental Considerations
  - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

## **CHAPTER 3. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS**

### **MARKET DYNAMICS 3.1. MARKET DRIVERS**

- 3.1.1. Increasing Adoption of Lightweight Composite Materials
- 3.1.2. Rising Demand for Fuel-efficient and Sustainable Aircraft
- 3.1.3. Technological Advancements in Flame Retardant Chemistries
- 3.2. Market Challenges
  - 3.2.1. Fluctuating Raw Material Costs
  - 3.2.2. Regulatory Complexities
- 3.3. Market Opportunities
  - 3.3.1. Development of Bio-based and Sustainable Flame Retardants
  - 3.3.2. Expansion into Emerging Aerospace Markets
  - 3.3.3. Innovations in Eco-friendly Formulations

## **CHAPTER 4. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS**

### **MARKET INDUSTRY ANALYSIS 4.1. PORTER'S 5 FORCE MODEL**

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological

- 4.2.5. Environmental
- 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET SIZE & FORECASTS BY PRODUCT 2022-2032 5.1. SEGMENT DASHBOARD**

5.2. Global Flame Retardants for Aerospace Plastics Market: By Product Revenue  
Trend Analysis, 2022 & 2032 (USD Million/Billion)

- 5.2.1. Antimony Oxide
- 5.2.2. Aluminum Trihydrate
- 5.2.3. Organophosphates
- 5.2.4. Boron Compounds

## **CHAPTER 6. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032 6.1. SEGMENT DASHBOARD**

6.2. Global Flame Retardants for Aerospace Plastics Market: By Application Revenue  
Trend Analysis, 2022 & 2032 (USD Million/Billion)

- 6.2.1. Carbon Fiber Reinforced Plastic (CFRP)
- 6.2.2. Glass Reinforced Plastic (GRP)
- 6.2.3. Polycarbonate
- 6.2.4. Thermoset Polyimide
- 6.2.5. Acrylonitrile Butadiene Styrene (ABS)
- 6.2.6. Acetal/Polyoxymethylene (POM)
- 6.2.7. Epoxies
- 6.2.8. Others

## **CHAPTER 7. GLOBAL FLAME RETARDANTS FOR AEROSPACE PLASTICS MARKET SIZE & FORECASTS BY REGION 2022-2032 7.1. NORTH AMERICA FLAME RETARDANTS MARKET**

- 7.1.1. U.S. Flame Retardants Market



- 7.1.1.1. By Product Breakdown Size & Forecasts, 2022-2032
  - 7.1.1.2. By Application Breakdown Size & Forecasts, 2022-2032
- 7.1.2. Canada Flame Retardants Market
- 7.2. Europe Flame Retardants Market
  - 7.2.1. UK Flame Retardants Market
  - 7.2.2. Germany Flame Retardants Market
  - 7.2.3. France Flame Retardants Market
  - 7.2.4. Spain Flame Retardants Market
  - 7.2.5. Italy Flame Retardants Market
  - 7.2.6. Rest of Europe Flame Retardants Market
- 7.3. Asia-Pacific Flame Retardants Market
  - 7.3.1. China Flame Retardants Market
  - 7.3.2. India Flame Retardants Market
  - 7.3.3. Japan Flame Retardants Market
  - 7.3.4. Australia Flame Retardants Market
  - 7.3.5. South Korea Flame Retardants Market
  - 7.3.6. Rest of Asia-Pacific Flame Retardants Market
- 7.4. Latin America Flame Retardants Market
  - 7.4.1. Brazil Flame Retardants Market
  - 7.4.2. Mexico Flame Retardants Market
  - 7.4.3. Rest of Latin America Flame Retardants Market
- 7.5. Middle East & Africa Flame Retardants Market
  - 7.5.1. Saudi Arabia Flame Retardants Market
  - 7.5.2. South Africa Flame Retardants Market
  - 7.5.3. Rest of Middle East & Africa Flame Retardants Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE 8.1. KEY COMPANY SWOT ANALYSIS**

- 8.1.1. BASF SE
- 8.1.2. Albemarle Corporation
- 8.1.3. Clariant AG
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. BASF SE
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies

- 8.3.2. Albemarle Corporation
- 8.3.3. Clariant AG
- 8.3.4. Dow Inc.
- 8.3.5. ICL Group
- 8.3.6. Lanxess AG
- 8.3.7. RTP Company
- 8.3.8. Huber Engineered Materials
- 8.3.9. FRX Polymers Inc.
- 8.3.10. Chemtura Corporation

## **CHAPTER 9. RESEARCH PROCESS 9.1. RESEARCH PROCESS**

- 9.1.1. Data Mining
- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

## List Of Tables

### LIST OF TABLES

- TABLE 1. Global Flame Retardants for Aerospace Plastics Market, Report Scope
- TABLE 2. Global Flame Retardants for Aerospace Plastics Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)
- TABLE 3. Global Flame Retardants for Aerospace Plastics Market Estimates & Forecasts by Product 2022-2032 (USD Million/Billion)
- TABLE 4. Global Flame Retardants for Aerospace Plastics Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 5. Global Flame Retardants for Aerospace Plastics Market Estimates & Forecasts by End-Use Industry 2022-2032 (USD Million/Billion)
- TABLE 6. Global Flame Retardants for Aerospace Plastics Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 7. Global Flame Retardants for Aerospace Plastics Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 8. Global Flame Retardants for Aerospace Plastics Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 9. Global Flame Retardants for Aerospace Plastics Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 10. Global Flame Retardants for Aerospace Plastics Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 11. Global Flame Retardants for Aerospace Plastics Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 12. Global Flame Retardants for Aerospace Plastics Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 13. Global Flame Retardants for Aerospace Plastics Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 14. Global Flame Retardants for Aerospace Plastics Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 15. U.S. Flame Retardants Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 16. U.S. Flame Retardants Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- TABLE 17. U.S. Flame Retardants Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- TABLE 18. Canada Flame Retardants Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 19. Canada Flame Retardants Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- TABLE 20. Canada Flame Retardants Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)
- .....

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Flame Retardants for Aerospace Plastics Market, Research Methodology
- FIG 2. Global Flame Retardants for Aerospace Plastics Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Flame Retardants for Aerospace Plastics Market, Key Trends 2023
- FIG 5. Global Flame Retardants for Aerospace Plastics Market, Growth Prospects 2022-2032
- FIG 6. Global Flame Retardants for Aerospace Plastics Market, Porter's 5 Force Model
- FIG 7. Global Flame Retardants for Aerospace Plastics Market, PESTEL Analysis
- FIG 8. Global Flame Retardants for Aerospace Plastics Market, Value Chain Analysis
- FIG 9. Global Flame Retardants for Aerospace Plastics Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Flame Retardants for Aerospace Plastics Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Flame Retardants for Aerospace Plastics Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Flame Retardants for Aerospace Plastics Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global Flame Retardants for Aerospace Plastics Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global Flame Retardants for Aerospace Plastics Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Flame Retardants Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe Flame Retardants Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia-Pacific Flame Retardants Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America Flame Retardants Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa Flame Retardants Market 2022 & 2032 (USD Million/Billion)
- FIG 20. Global Flame Retardants for Aerospace Plastics Market, Company Market Share Analysis (2023)
- .....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

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