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World Collection



# World

# Flame Retardants

February 2017



## Highlights

World Overview and Forecasts  
Demand by Product | Demand by Market

Regional Segmentation and Forecasts  
Regional Demand Overview | North America | Western Europe | Asia/Pacific  
Other Regions

Industry Structure  
Industry Composition and Characteristics | Companies Cited

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## ABOUT THIS REPORT

### Scope & Method

This report forecasts total world demand in 2020 for flame retardants by product, market, and major world region in metric tons. Product segments include:

- alumina trihydrate (ATH)
- phosphorus compounds
- brominated compounds
- antimony compounds
- other products such as boron compounds, chlorinated compounds, and magnesium hydroxide.

As defined in this report, flame retardants consist of those products added to a material at the time of manufacture to improve the material's ability to withstand fire and heat, resist combustion, and/or reduce or eliminate the generation of smoke and toxic fumes in the event of a fire. Not included are products used after manufacturing to improve fire safety, such as asbestos or other mineral coatings applied to steel beams, or chemical sprays that are applied to textiles. Also excluded are applications for ATH in which the compound is used as filler and not for its flame retardant properties, most notably in acrylic countertop materials.

Reported markets encompass:

- construction
- electrical and electronics
- wire and cable
- motor vehicles
- other markets such as textiles, aircraft and aerospace equipment, and adhesives and sealants.

Major world regions include:

- North America
- Western Europe
- Asia/Pacific
- all other regions.

Demand by product and market segment is also forecast for each major world region.

To illustrate historical trends world, product, market, and regional demand (including product and market segments) are provided for 2010 and 2015.

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning

in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

## Sources

*World Flame Retardants* (FW35019) is based on [a comprehensive industry study](#) published by The Freedonia Group in February 2017. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other industry studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

## Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
325188	All Other Basic Inorganic Chemical Mfg	2819	Industrial Inorganic Chemicals, NEC
325199	All Other Basic Organic Chemical Mfg	2869	Industrial Organic Chemicals, NEC
325998	All Other Miscellaneous Chemical Product and Preparation Mfg	2899	Chemicals and Chemical Preparations, NEC

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## RESOURCES

### The Freedonia Group

<i>3499 Global Flame Retardants Market</i> , February 2017	<a href="http://www.freedoniagroup.com">www.freedoniagroup.com</a>
Related Industry Studies	
<i>3487 Global Flooring Market</i> , January 2017	<a href="#">see study contents</a>
<i>3473 Roofing Underlay Market in the US</i> , November 2016	<a href="#">see study contents</a>
<i>3461 Global Emulsion Polymers Market</i> , November 2016	<a href="#">see study contents</a>
<i>3438 High Performance Composites</i> , August 2016	<a href="#">see study contents</a>
<i>3405 Plastic Foams</i> , June 2016	<a href="#">see study contents</a>
<i>3399 World Roofing</i> , May 2016	<a href="#">see study contents</a>
Related Focus Reports	
<i>Computers &amp; Peripherals: United States</i>	<a href="#">see report contents</a>
<i>Construction: United States</i>	<a href="#">see report contents</a>
<i>Electronic Components: United States</i>	<a href="#">see report contents</a>
<i>Motor Vehicles: United States</i>	<a href="#">see report contents</a>
<i>World Flooring</i>	<a href="#">see report contents</a>
<i>World Insulation</i>	<a href="#">see report contents</a>
<i>World Roofing</i>	<a href="#">see report contents</a>
Freedonia Custom Research	<a href="#">see capabilities</a>

### Trade Publications

<i>Chemical &amp; Engineering News</i> (USA)	<a href="http://cen.acs.org">http://cen.acs.org</a>
<i>ICIS Chemical Business</i> (United Kingdom)	<a href="http://www.icis.com">www.icis.com</a>
<i>IHS Chemical Week</i> (USA)	<a href="http://www.chemweek.com">www.chemweek.com</a>
<i>Industrial Minerals</i> (United Kingdom)	<a href="http://www.indmin.com">www.indmin.com</a>
<i>Plastics News</i> (USA)	<a href="http://www.plasticsnews.com">www.plasticsnews.com</a>

### Agencies & Associations

British Standards Institution	<a href="http://www.bsigroup.com">www.bsigroup.com</a>
European Flame Retardants Association	<a href="http://www.cefic-efra.com">www.cefic-efra.com</a>
European Union	<a href="http://www.europa.eu">www.europa.eu</a>
IEEE	<a href="http://www.ieee.org">www.ieee.org</a>
International Electrotechnical Commission	<a href="http://www.iec.ch">www.iec.ch</a>
International Monetary Fund	<a href="http://www.imf.org">www.imf.org</a>
International Organization for Standardization	<a href="http://www.iso.org">www.iso.org</a>
Organisation for Economic Co-operation and Development	<a href="http://www.oecd.org">www.oecd.org</a>
United States Consumer Product Safety Commission	<a href="http://www.cpsc.gov">www.cpsc.gov</a>
United States Environmental Protection Agency	<a href="http://www.epa.gov">www.epa.gov</a>
World Bank	<a href="http://www.worldbank.org">www.worldbank.org</a>

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