

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market Growth 2026-2032

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Abstracts

The global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size is predicted to grow from US\$ 7.34 million in 2025 to US\$ 13.78 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 2032.

Magnesium hydroxide-based flame retardants for semiconductor encapsulants are halogen-free functional powders used in epoxy molding compounds, semiconductor sealing materials, electronic encapsulation adhesives, printed circuit boards, and high-reliability electronic insulation systems. Their core role is to improve flame-retardant performance, smoke suppression, thermal stability, and electrical reliability without introducing bromine-antimony systems or corrosive combustion by-products. These products are typically supplied as high-purity magnesium hydroxide, composite metal hydroxides, or modified powders treated with silanes, fatty acids, inorganic layers, or phosphorus-nitrogen functional groups. They work through endothermic decomposition, release of water vapor, dilution of combustible gases, formation of a magnesium oxide barrier layer, and promotion of a dense char layer. Semiconductor encapsulation imposes much stricter requirements on sodium, potassium, chloride, calcium, iron and other ionic impurities, particle size distribution, specific surface area, absorbed water, acid-base stability, and resin flowability than ordinary wire, cable, or building-material flame-retardant fillers. As a result, the product is evolving from a general-purpose flame-retardant filler into an electronic-grade, low-ionic, highly dispersible, and high-loading compatible specialty material.

Magnesium hydroxide-based flame retardants for semiconductor encapsulants are evolving from conventional inorganic fillers into electronic-grade functional materials. Their value proposition has expanded from flame-retardant efficiency to broader

optimization of encapsulation reliability, low ionic contamination, thermal stability, and resin processability. Ordinary magnesium hydroxide offers halogen-free performance, low smoke generation, endothermic decomposition, and magnesium oxide barrier formation. However, semiconductor encapsulants are typically high-filler systems based on epoxy resin, silica filler, curing agents, mold release agents, and multiple additives. Any moisture, ionic impurity, coarse particle, or agglomeration can affect mold flow, viscosity, moisture reliability, ion migration, and long-term device insulation. Therefore, products for semiconductor encapsulation must control impurity levels, particle size, specific surface area, absorbed water, surface polarity, and compatibility with epoxy systems.

From a competitive perspective, this segment is not defined only by bulk capacity. Its entry barriers are built on high-purity synthesis, crystal morphology control, surface treatment, ion extraction control, and customer formulation validation. Semiconductor encapsulation materials impose significantly stricter requirements on powder purity, particle size distribution, surface treatment, and resin flowability than ordinary flame-retardant fillers. Suppliers with electronic-grade performance data, stable batch-to-batch supply, and formulation validation experience are therefore more likely to gain customer qualification. Public research also shows that magnesium hydroxide is a green inorganic flame-retardant additive, but it is difficult to disperse in epoxy resin and requires surface modification or compounded design to improve its application performance in epoxy systems.

LP Information, Inc. (LPI) ' newest research report, the "Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Industry Forecast" looks at past sales and reviews total world Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants sales for 2026 through 2032. With Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants industry.

This Insight Report provides a comprehensive analysis of the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Magnesium Hydroxide-based

Flame Retardant for Semiconductor Encapsulants portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants and breaks down the forecast by Material System, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market by product type, application, key manufacturers and key regions and countries.

Segmentation by Material System:

High-Purity Magnesium Hydroxide-Based Flame Retardant

Composite Metal Hydroxide-Based Flame Retardant

Magnesium Hydroxide Blended With Phosphorus-Nitrogen Flame Retardant

Magnesium Hydroxide Blended With Silicon-Based Flame Retardant

Other

Segmentation by Source Process:

Seawater Process Magnesium Hydroxide-Based Flame Retardant

Brine Precipitation Process Magnesium Hydroxide-Based Flame Retardant

Refined Mineral Brucite Magnesium Hydroxide-Based Flame Retardant

Magnesium Salt Hydrothermal Synthesis Magnesium Hydroxide-Based Flame Retardant

Other

Segmentation by Particle Size Grade:

Submicron Magnesium Hydroxide-Based Flame Retardant

Fine Micron Magnesium Hydroxide-Based Flame Retardant

Medium Micron Magnesium Hydroxide-Based Flame Retardant

Coarse Micron Magnesium Hydroxide-Based Flame Retardant

Other

Segmentation by Application:

Discrete Device Packaging

Power Device Packaging

Integrated Circuit Plastic Encapsulation

Electronic Adhesives

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Tateho Chemical Industries Co., Ltd.

Kyowa Chemical Industry Co., Ltd.

Konoshima Chemical Co., Ltd.

Huber Advanced Materials

Martin Marietta Magnesia Specialties LLC

ICL Industrial Products

Nuova Sima S.r.l.

Brucite+ Group

NikoMag Europe B.V.

KMT Industrial (HK) Ltd.

Zhejiang Xusen Flame Retardants Incorporated Co., Ltd.

Dafei (Shandong) New Material Technology Co., Ltd.

Faretar Flame Retardant Technology Co., Ltd.

GO YEN CHEMICAL INDUSTRIAL CO., LTD.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market?

What factors are driving Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market opportunities vary by end market size?

How does Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants break out by Material System, by Application?

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