

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size was valued at US\$ 7.72 million in 2025 and is forecast to a readjusted size of US\$ 14.06 million by 2032 with a CAGR of 8.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material System and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size and forecasts, in consumption value (\$ Million), sales quantity (Ton), and

average selling prices (K US\$/Ton), 2021-2032

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Ton), and average selling prices (K US\$/Ton), 2021-2032

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size and forecasts, by Material System and by Application, in consumption value (\$ Million), sales quantity (Ton), and average selling prices (K US\$/Ton), 2021-2032

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market shares of main players, shipments in revenue (\$ Million), sales quantity (Ton), and ASP (K US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market is split by Material System and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material System, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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

Market segment 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

Market segment 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

Market segment by Application

Discrete Device Packaging

Power Device Packaging

Integrated Circuit Plastic Encapsulation

Electronic Adhesives

Other

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants, with price, sales quantity, revenue, and global market share of Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants from 2021 to 2026.

Chapter 3, the Magnesium Hydroxide-based Flame Retardant for

Semiconductor Encapsulants competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Material System and by Application, with sales market share and growth rate by Material System, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market forecast, by regions, by Material System, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants.

Chapter 14 and 15, to describe Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants sales channel, distributors, customers, research findings and conclusion.

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