

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market size is expected to reach \$ 14.06 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants total production and demand, 2021-2032, (Ton)

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants total production value, 2021-2032, (USD Million)

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants

production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Ton), (based on production site)

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants consumption by region & country, CAGR, 2021-2032 & (Ton)

U.S. VS China: Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants domestic production, consumption, key domestic manufacturers and share

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Ton)

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants production by Material System, production, value, CAGR, 2021-2032, (USD Million) & (Ton)

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Ton)

This report profiles key players in the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Ton) and average price (K US\$/Ton) by manufacturer, by Material System, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market, 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

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market, 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

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market, 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

Global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants Market, Segmentation by Application:

Discrete Device Packaging

Power Device Packaging

Integrated Circuit Plastic Encapsulation

Electronic Adhesives

Other

Companies Profiled:

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 Answered:

1. How big is the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market?
2. What is the demand of the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market?
3. What is the year over year growth of the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market?
4. What is the production and production value of the global Magnesium Hydroxide-

based Flame Retardant for Semiconductor Encapsulants market?

5. Who are the key producers in the global Magnesium Hydroxide-based Flame Retardant for Semiconductor Encapsulants market?

6. What are the growth factors driving the market demand?

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