

Global Magnesium Hydroxide Whisker 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 Whisker market size was valued at US\$ 22.64 million in 2025 and is forecast to a readjusted size of US\$ 60.02 million by 2032 with a CAGR of 11.7% during review period.

Magnesium Hydroxide Whisker refers to fibrous single crystals prepared by artificial methods such as hydrothermal synthesis, alkaline precipitation or precursor calcination, with chemical formula $Mg(OH)_2$. It appears as white powder, non-toxic and odorless. Its microscopic morphology is acicular or rod-shaped, typically 0.1-1.0 μm in diameter and with an aspect ratio (length/diameter) of 20-200, belonging to the category of inorganic functional whisker materials. Magnesium hydroxide whisker starts to decompose endothermically at approximately 340°C, releasing water vapor and forming a highly active magnesium oxide (MgO) char layer. Due to its high aspect ratio and single-crystal structure, it can hinder crack propagation in polymer matrices via pull-out and bridging effects. Based on these properties, magnesium hydroxide whisker is used as a flame retardant (with smoke suppression, low toxicity, halogen-free), a reinforcing agent (improving tensile strength and elastic modulus) and a processing aid (improving melt flow and filler dispersion) in polymer materials, making it a key functional filler for low-smoke halogen-free flame-retardant composites.

Magnesium hydroxide whisker is the only halogen-free dual-functional (flame retardant + reinforcement) segment where China dominates global supply, with ~80% of capacity concentrated in magnesium-rich regions such as Yingkou (Liaoning) and Yuncheng (Shanxi). The pure whisker market was ~USD\$22M in 2025, far smaller than the ordinary $Mg(OH)_2$ powder market (>USD\$1,000M), and fewer than ten enterprises

worldwide can supply consistently. Pricing: silane-modified whiskers trade at USD\$2,500-4,500/ton, raw powder at USD\$1,800-2,500/ton, positioned between conventional Mg(OH)₂ (USD\$1,500-1,800/ton) and organic phosphorus flame retardants (USD\$5,000-10,000/ton), offering clear cost-performance advantages in mid-range flame retardant applications. Margins: domestic leaders (e.g., Yingkou Weiske) achieve 25-30% gross margins through proprietary crystal morphology control and surface modification; Japanese players (Ube, Tateho) can reach >40% on high-end tailor-made products, but their volumes are small. Downstream primary applications: halogen-free wire & cable jacketing accounts for ~45% of global consumption, engineering plastics (PP/ABS/PA) ~35%, electronics & electricals ~12%, transportation (aerospace, high-speed rail) ~5%, others ~3%. Incremental demand springs from three main drivers: • EU CP (2024-2026) and upgraded Chinese GB/T 19666 standards mandating halogen-free building wires; • large aircraft programs (C919, C929) requiring low-smoke, low-toxicity interior materials; • EV high-voltage harnesses demanding better flame retardancy and heat resistance. Landscape: Japanese firms maintain a generational lead in high-end whisker technology and patents, but their capacity and cost limit market reach. Domestic players (Yingkou Weiske, Yancheng Longteng, Yuncheng Baxing) have achieved stable industrial-scale production of whisker-grade material and validated quality through exports to Korea and SE Asia, making China the primary global supplier. Uncertainties include: potential entry of ordinary Mg(OH)₂ powder producers who upgrade into whiskers; patent barriers on surface modification formulations; and slow downstream adoption of whisker reinforcement concepts (many still treat whiskers as simple fillers). Conclusion: Magnesium hydroxide whisker is one of the best cost-performance choices for mid-range flame-retardant composites. Chinese enterprises have completed the zero-to-one industrialization breakthrough, but have not yet transformed from whisker suppliers into flame-retardant solution providers. Over the next five years, the industry will shift from product availability to system solution capability, and firms that master formulation development and certification will capture higher value.

This report is a detailed and comprehensive analysis for global Magnesium Hydroxide Whisker market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Whisker market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Magnesium Hydroxide Whisker market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Magnesium Hydroxide Whisker market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Magnesium Hydroxide Whisker market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (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 Whisker

- 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 Whisker 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 Yingkou Weiske Chemical, Ube Material Industries, Tateho Chemical Industries, Yancheng Longteng Magnesium Tech, Yuncheng Baxing Chemical, Yingkou Boda Technology, Honglin Magnesium Material, etc.

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

Market Segmentation

Magnesium Hydroxide Whisker market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Medium Aspect Ratio (AR 30?100)

High Aspect Ratio (AR 100?200)

Ultra-High Aspect Ratio (AR >200)

Market segment by Material System

Unmodified (Raw)

Silane-Modified

Titanate / Other Coupler

Market segment by Application

Wire & Cable (Halogen-Free)

Engineering Plastics (PP/ABS/PA)

Electronic & Electrical Components

Transportation (Aerospace & Rail)

Others

Major players covered

Yingkou Weiske Chemical

Ube Material Industries

Tateho Chemical Industries

Yancheng Longteng Magnesium Tech

Yuncheng Baxing Chemical

Yingkou Boda Technology

Honglin Magnesium Material

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 Whisker product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnesium Hydroxide Whisker, with price, sales quantity, revenue, and global market share of Magnesium Hydroxide Whisker from 2021 to 2026.

Chapter 3, the Magnesium Hydroxide Whisker competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnesium Hydroxide Whisker 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 Type and by Application, with sales market share and growth rate by Type, 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 Whisker market forecast, by regions, by Type, 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 Whisker.

Chapter 14 and 15, to describe Magnesium Hydroxide Whisker sales channel, distributors, customers, research findings and conclusion.

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