

Global Magnesium Hydroxide Whisker Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnesium Hydroxide Whisker market size is expected to reach \$ 60.02 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

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 studies the global Magnesium Hydroxide Whisker production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnesium Hydroxide Whisker 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 Whisker that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnesium Hydroxide Whisker total production and demand, 2021-2032, (Tons)

Global Magnesium Hydroxide Whisker total production value, 2021-2032, (USD Million)

Global Magnesium Hydroxide Whisker production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Magnesium Hydroxide Whisker consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Magnesium Hydroxide Whisker domestic production, consumption, key domestic manufacturers and share

Global Magnesium Hydroxide Whisker production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Magnesium Hydroxide Whisker production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Magnesium Hydroxide Whisker production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Magnesium Hydroxide Whisker 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnesium Hydroxide Whisker market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Whisker Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnesium Hydroxide Whisker Market, Segmentation by Type:

Medium Aspect Ratio (AR 30?100)

High Aspect Ratio (AR 100?200)

Ultra-High Aspect Ratio (AR >200)

Global Magnesium Hydroxide Whisker Market, Segmentation by Material System:

Unmodified (Raw)

Silane-Modified

Titanate / Other Coupler

Global Magnesium Hydroxide Whisker Market, Segmentation by Application:

Wire & Cable (Halogen-Free)

Engineering Plastics (PP/ABS/PA)

Electronic & Electrical Components

Transportation (Aerospace & Rail)

Others

Companies Profiled:

Yingkou Weiske Chemical

Ube Material Industries

Tateho Chemical Industries

Yancheng Longteng Magnesium Tech

Yuncheng Baxing Chemical

Yingkou Boda Technology

Honglin Magnesium Material

Key Questions Answered:

1. How big is the global Magnesium Hydroxide Whisker market?
2. What is the demand of the global Magnesium Hydroxide Whisker market?
3. What is the year over year growth of the global Magnesium Hydroxide Whisker market?
4. What is the production and production value of the global Magnesium Hydroxide Whisker market?
5. Who are the key producers in the global Magnesium Hydroxide Whisker market?
6. What are the growth factors driving the market demand?

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