

Aluminium Hydroxide Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Grade (Industrial Grade, Pharma Grade), By End User (Construction, Pharmaceuticals, Automotive, Electronics), By Region and Competition, 2020-2030F

<https://marketpublishers.com/r/AA23674D0235EN.html>

Date: February 2025

Pages: 187

Price: US\$ 4,500.00 (Single User License)

ID: AA23674D0235EN

Abstracts

The Global Aluminium Hydroxide Market was valued at USD 12.32 billion in 2024 and is projected to reach USD 15.96 billion by 2030, growing at a compound annual growth rate (CAGR) of 4.37% during the forecast period. Aluminium hydroxide ($\text{Al}(\text{OH})_3$) is a widely utilized inorganic compound, recognized for its applications as a flame retardant, pharmaceutical ingredient, and precursor in aluminum-based compounds. The market for aluminium hydroxide has experienced consistent growth, driven by its diverse uses across industries such as plastics, pharmaceuticals, water treatment, and construction. The growing demand is supported by stringent safety regulations, increasing pharmaceutical needs, and broader industrial applications. According to the OEC, aluminium hydroxide ranked as the 1,523rd most traded product globally, with a trade value of \$1.79 billion. From 2022 to 2023, exports of aluminium hydroxide saw a decline of 5.9%, falling from \$1.9 billion to \$1.79 billion, representing 0.0079% of total global trade.

A key market driver is the widespread use of aluminium hydroxide as a flame retardant. The compound is considered a safer, environmentally friendly alternative to halogenated flame retardants, making it highly favored in the plastics, rubber, and polymer industries. With increasingly strict fire safety regulations in sectors such as electronics, automotive, and construction, the demand for aluminium hydroxide-based flame retardants continues to grow.

Key Market Drivers

Growth in the Pharmaceutical Industry

The aluminium hydroxide market is experiencing significant expansion, primarily driven by the pharmaceutical sector. Aluminium hydroxide is crucial in the formulation of antacids, vaccines, and drug excipients. The rising demand for pharmaceutical products, coupled with advancements in drug manufacturing processes, is contributing to an increased need for high-purity aluminium hydroxide. As pharmaceutical companies continue to innovate with new medications and vaccines, the consumption of aluminium hydroxide as both an active pharmaceutical ingredient (API) and excipient is expected to grow steadily. India, for instance, plays a significant role in the global pharmaceutical industry, supplying over 50% of global vaccine demand, 40% of the generic drug demand in the U.S., and 25% of medicines in the U.K. The rising prevalence of gastrointestinal disorders is another driver of the demand for aluminium hydroxide, especially in antacid formulations. Additionally, aluminium hydroxide serves as an adjuvant in vaccines, enhancing immune responses and the efficacy of immunization programs. The global push for vaccination campaigns, particularly in response to diseases like COVID-19 and influenza, has further driven the demand for high-quality aluminium hydroxide formulations.

Key Market Challenges

Volatility in Raw Material Prices

A significant challenge in the aluminium hydroxide market is the fluctuation in raw material costs. As aluminium hydroxide is derived from bauxite, a mineral whose prices are influenced by supply chain disruptions, geopolitical tensions, and mining regulations, the production costs of aluminium hydroxide are subject to considerable variation. This price volatility impacts the overall pricing structure and stability within the market, leading to unpredictability for both manufacturers and end-users.

Key Market Trends

Increasing Demand for Flame Retardant Applications

A notable trend in the global aluminium hydroxide market is its growing use as a flame retardant in various applications, such as plastics, rubber, and coatings. Due to stricter fire safety regulations worldwide, industries are transitioning to non-halogenated alternatives like aluminium hydroxide because of its environmental and health benefits.

This trend is particularly prominent in sectors such as construction, automotive, and electronics, where fire resistance is critical. The rising demand for flame-retardant materials in developed economies is expected to further fuel the consumption of aluminium hydroxide.

Key Market Players

Almatis

Alteo

ALUMINA - CHEMICALS & CASTABLES

Aluminum Corporation of China Ltd (Chalco)

MAL - Magyar Aluminum Ltd.

Sumitomo Chemical Co. Ltd.

Huber Materials

Sibelco NV

LKAB Minerals AB

Donau Carbon GmbH

TOR Minerals International, Inc.

Hindalco (Aditya Birla Management Corporation Pvt. Ltd.)

Report Scope

This report segments the Global Aluminium Hydroxide Market into the following categories, with accompanying industry trends discussed in detail:

By Grade:

Industrial Grade

Pharma Grade

By End-User Industry:

Construction

Pharmaceuticals

Automotive

Electronics

By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

The report provides a detailed analysis of key players in the Global Aluminium Hydroxide Market.

Available Customizations:

TechSci Research offers customizations for the Global Aluminium Hydroxide Market report based on specific company needs. Customization options include:

Detailed company profiles of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. IMPACT OF COVID-19 ON GLOBAL ALUMINIUM HYDROXIDE MARKET

5. GLOBAL ALUMINIUM HYDROXIDE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Grade (Industrial Grade, Pharma Grade)
 - 5.2.2. By End User (Construction, Pharmaceuticals, Automotive, Electronics)
 - 5.2.3. By Region
 - 5.2.4. By Company (2024)

5.3. Market Map

6. NORTH AMERICA ALUMINIUM HYDROXIDE MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Grade

6.2.2. By End User

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Aluminium Hydroxide Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Grade

6.3.1.2.2. By End User

6.3.2. Mexico Aluminium Hydroxide Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Grade

6.3.2.2.2. By End User

6.3.3. Canada Aluminium Hydroxide Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Grade

6.3.3.2.2. By End User

7. EUROPE ALUMINIUM HYDROXIDE MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Grade

7.2.2. By End User

7.2.3. By Country

7.3. Europe: Country Analysis

- 7.3.1. France Aluminium Hydroxide Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Grade
 - 7.3.1.2.2. By End User
- 7.3.2. Germany Aluminium Hydroxide Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Grade
 - 7.3.2.2.2. By End User
- 7.3.3. United Kingdom Aluminium Hydroxide Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Grade
 - 7.3.3.2.2. By End User
- 7.3.4. Italy Aluminium Hydroxide Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Grade
 - 7.3.4.2.2. By End User
- 7.3.5. Spain Aluminium Hydroxide Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Grade
 - 7.3.5.2.2. By End User

8. ASIA PACIFIC ALUMINIUM HYDROXIDE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Grade
 - 8.2.2. By End User
 - 8.2.3. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Aluminium Hydroxide Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Grade

8.3.1.2.2. By End User

8.3.2. India Aluminium Hydroxide Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Grade

8.3.2.2.2. By End User

8.3.3. South Korea Aluminium Hydroxide Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Grade

8.3.3.2.2. By End User

8.3.4. Japan Aluminium Hydroxide Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Grade

8.3.4.2.2. By End User

8.3.5. Australia Aluminium Hydroxide Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Grade

8.3.5.2.2. By End User

9. SOUTH AMERICA ALUMINIUM HYDROXIDE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Grade

9.2.2. By End User

9.2.3. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Aluminium Hydroxide Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Grade

9.3.1.2.2. By End User

9.3.2. Argentina Aluminium Hydroxide Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Grade

9.3.2.2.2. By End User

9.3.3. Colombia Aluminium Hydroxide Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Grade

9.3.3.2.2. By End User

10. MIDDLE EAST AND AFRICA ALUMINIUM HYDROXIDE MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Grade

10.2.2. By End User

10.2.3. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Aluminium Hydroxide Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Grade

10.3.1.2.2. By End User

10.3.2. Saudi Arabia Aluminium Hydroxide Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Grade

10.3.2.2.2. By End User

10.3.3. UAE Aluminium Hydroxide Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Grade

10.3.3.2.2. By End User

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

12.1. Merger & Acquisition (If Any)

12.2. Product Launches (If Any)

12.3. Recent Developments

13. GLOBAL ALUMINIUM HYDROXIDE MARKET: SWOT ANALYSIS

14. PORTERS FIVE FORCES ANALYSIS

14.1. Competition in the Industry

14.2. Potential of New Entrants

14.3. Power of Suppliers

14.4. Power of Customers

14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

15.1. Almatiss

15.1.1. Business Overview

15.1.2. Company Snapshot

15.1.3. Products & Services

15.1.4. Financials (As Reported)

15.1.5. Recent Developments

15.1.6. Key Personnel Details

15.1.7. SWOT Analysis

15.2. Alteo

15.3. ALUMINA - CHEMICALS & CASTABLES

15.4. Aluminum Corporation of China Ltd (Chalco)

15.5. MAL - Magyar Aluminum Ltd.

15.6. Sumitomo Chemical Co. Ltd.

15.7. Huber Materials.

15.8. Sibelco NV

15.9. LKAB Minerals AB

15.10. Donau Carbon GmbH

15.11. TOR Minerals International, Inc.

15.12. Hindalco (Aditya Birla Management Corporation Pvt. Ltd)

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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