

Agricultural Calcium Market by Type (Calcium Carbonate, Calcium Sulfate, Calcium Nitrate, Calcium Chloride, Calcium Oxide and Hydroxide, and Others), Application (Agriculture and Animal Feed), Form, Function, and Region – Global Forecast to 2030

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Abstracts

The agricultural calcium market is estimated to be USD 23.60 billion in 2025 and is projected to reach USD 29.62 billion by 2030, at a CAGR of 4.6%. The market is experiencing significant growth, driven by the shift toward sustainable & precision agriculture, strengthened by global sustainability mandates for mineral inputs, emerging priorities in global soil health management, focus on animal health and productivity, and quality standards in egg and milk production. Additionally, extensive agronomic studies confirm that calcium application improves soil pH, nutrient availability, and structural integrity while reducing aluminum toxicity in acidic soils, thereby strengthening crop performance and long-term field productivity. Calcium has also been shown to contribute to soil carbon stabilization by mediating mineral–organic interactions and reducing carbon mineralization rates, indicating its relevance in climate-resilient and regenerative agriculture systems.

However, critical constraints affecting the future of mineral-dependent industries and competition with nitrogen & complex fertilizers in farmer budgeting are expected to pose challenges in the agricultural calcium market. Furthermore, environmental concerns related to mining activities and the high carbon footprint of lime processing also remain a technical challenge.

Overall, growth in specialty crop production, expansion of high-value crops & controlled environment agriculture (CEA), and the rise of precision agriculture & soil diagnostics are expected to boost targeted calcium application, presenting substantial growth

opportunities for calcium supplement manufacturers to gain a significant share in the market.

“By type, the calcium carbonate segment is expected to hold a dominant market share during the forecast period”

The calcium carbonate segment is estimated to dominate the market as it is the most widely used calcium source in agriculture because it is abundant, low-cost, and provides high elemental calcium across both animal nutrition and soil conditioning applications. Additionally, in the animal feed application, calcium supplement supports bone development, eggshell formation, and metabolic function in poultry, dairy, swine, and aquaculture. Due to its various functionalities in the agriculture and animal feed industry, calcium carbonate is considered to have a dominant market share.

“In agriculture application, the field crops segment is expected to lead the agricultural calcium market during the forecast period”

The types of field crops considered in the study include cereals & grains, oilseeds & pulses, and other field crops. It represents a core sub-application for agricultural calcium, as large-scale cultivation of cereals, oilseeds, and pulses places sustained pressure on soil fertility and structural integrity. Thus, calcium-based minerals such as gypsum, calcium carbonate, calcium oxide, and others are increasingly adopted in intensive field crop systems, contributing to improved nutrient balance, higher productivity, and sustained demand within the agricultural calcium market.

“South America is expected to hold a significant share in the global agricultural calcium market during the forecast period”

By region, South America is estimated to be the second-largest market for agricultural calcium. It is a major agricultural producer and exporter of several crops, such as soybeans, corn, wheat, and cotton. The use of calcium supplements has gained importance in the region due to their essential role in plant growth and development. The market growth in this region is also attributed to the rapid expansion of commercial row crops and export-oriented horticulture, combined with strong adoption of soil correction practices in Brazil and Argentina.

In-depth interviews have been conducted with chief executive officers (CEOs), directors, and other executives from various key organizations operating in the agricultural calcium market.

By Company Type: Tier 1 – 30%, Tier 2 – 25%, and Tier 3 – 45%

By Designation: CXOs – 25%, Managers – 35%, Others – 40%

By Region: North America – 20%, Europe – 30%, Asia Pacific – 35%, South America – 10%, and Rest of the World –5%

Prominent companies in the market include Yara International (Norway), Omya International AG (Switzerland), Sibelco (US), Carmeuse (Belgium), Coromandel International Ltd. (India), Imerys (France), Saint-Gobain Formula (UK), Minerals Technologies Inc. (US), Graymont (Canada), Kemin Industries, Inc. (US), CALC Group (Poland), EuroChem Group (Switzerland), GLC Minerals, LLC. (US), Huber Engineered Materials (US), Mississippi Lime Company d/b/a MLC (US), AZOMITE Mineral Products, Inc. (US), Jiloca Industrial SA (Spain), Sigma Minerals Ltd. (India), Astrra Chemicals (India), Lhoist (Belgium), and others.

Research Coverage

This research report categorizes the agricultural calcium market by type (calcium carbonate [limestone], calcium sulfate [gypsum], calcium nitrate, calcium chloride, calcium oxide and hydroxide [lime & hydrated lime], calcium citrate, calcium phosphate, and natural mineral), application (agriculture and animal feed), form (powder, granules/grits, liquid, pellets, and other forms), function (qualitative) (agriculture [nutrient supplementation, soil structure improvement, disease prevention and plant health, fertilizer enhancement, and soil pH adjustment and liming] and animal feed [bone and muscle development, eggshell formation, milk production enhancement, and other functions]), and region (North America, Europe, Asia Pacific, South America, and Rest of the World).

The report's scope encompasses detailed information on the major factors, including drivers, restraints, challenges, and opportunities, that influence the growth of the agricultural calcium industry. A thorough analysis of the key industry players has been done to provide insights into their business, services, key strategies, contracts, partnerships, agreements, product launches, mergers & acquisitions, and recent developments associated with the agricultural calcium market. This report provides a competitive analysis of emerging startups in the agricultural calcium market ecosystem. Furthermore, the study covers industry-specific trends, including technology analysis, ecosystem & market mapping, and patent & regulatory landscape, among others.

Reasons to Buy This Report

The report provides market leaders/new entrants with information on the closest approximations of revenue numbers for the overall agricultural calcium and its subsegments. It will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of key drivers (shift toward sustainable & precision agriculture strengthened by global sustainability mandates for mineral inputs), restraints (environmental concerns related to mining activities), opportunities (growth in specialty crop production & expansion of high-value crops & controlled environment agriculture (CEA)), and challenges (critical constraints affecting the future of mineral-dependent industries) influencing the growth of the agricultural calcium market

Product Development/Innovation: Detailed insights into research & development activities and new product launches in the agricultural calcium market

Market Development: Comprehensive information about lucrative markets—analysis of agricultural calcium across varied regions

Market Diversification: Exhaustive information about new product sources, untapped geographies, recent developments, and investments in the agricultural calcium market

Competitive Assessment: In-depth assessment of market shares, growth strategies, product offerings, brand/product comparison, and product footprints of leading players such as Yara International (Norway), Omya International AG (Switzerland), Sibelco (US), Carmeuse (Belgium), Coromandel International Ltd. (India), Imerys (France), Saint-Gobain Formula (UK), Minerals Technologies Inc. (US), Graymont (Canada), Kemin Industries, Inc. (US), CALC Group (Poland), EuroChem Group (Switzerland), GLC Minerals, LLC. (US), Huber Engineered Materials (US), Mississippi Lime Company d/b/a MLC (US), AZOMITE Mineral

Products, Inc. (US), Jiloca Industrial SA (Spain), Sigma Minerals Ltd. (India), Astra Chemicals (India), Lhoist (Belgium), and other players in the agricultural calcium market.

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