

Calcium Ammonium Nitrate Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Application (Fertilizers, Explosives, Others), By Region, & Competition, 2020-2030F

Market Report | 2025-08-25 | 180 pages | TechSci Research

AVAILABLE LICENSES:

- Single User License \$4500.00
- Multi-User License \$5500.00
- Custom Research License \$8000.00

Report description:

Market Overview

Global Calcium Ammonium Nitrate market was valued at USD 3.99 Billion in 2024 and is expected to reach USD 4.96 Billion by 2030 with a CAGR of 3.70%. Calcium ammonium nitrate, also known as nitro limestone and nitro chalk, is a fertilizer widely used across the globe. It is produced by mixing powdered limestone in ammonium nitrate, resulting in a neutral mixture with the ability to neutralize acidic soil. This essential source of nitrogen for plant growth is quickly absorbed by plant roots during the fruiting stage, making it highly valued by farmers worldwide. Moreover, the presence of calcium not only improves soil health but also ensures long-term benefits. The fertilizer grade of calcium ammonium nitrate typically contains approximately 8% calcium and 21% to 27% nitrogen, making it suitable for enhancing root and soil health. Interestingly, calcium ammonium nitrate serves as a viable alternative in countries where ammonium nitrate is banned. Additionally, due to its hygroscopic nature, it has the ability to retain water molecules even at room temperature, further contributing to its effectiveness.

Key Market Drivers

Growing Demand of Calcium Ammonium Nitrate in Agriculture Industry

The agriculture industry serves as the primary growth engine for the global calcium ammonium nitrate (CAN) market, driven by the increasing need for high-efficiency fertilizers, sustainable farming practices, and food security across both developed and emerging economies. The rising importance of CAN as a nitrogen-based fertilizer coupled with its superior agronomic benefits continues to fuel its widespread adoption and market expansion. Asia currently holds the largest share of the global population, demographic projections indicate that Africa is poised for a significant surge in population growth, with its share expected to approach 40% of the global total by the end of the century. The ongoing rise in the global population, especially in Asia and Africa, has placed tremendous pressure on the agriculture sector to increase food production. Farmers are under constant demand to improve crop yields within limited arable land. CAN, known for its rapid nitrogen availability and balanced nutrient composition

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

(including calcium), is increasingly favored to support higher productivity, particularly in nitrogen-depleted soils. This direct link between agricultural output and CAN application is significantly driving market growth. Modern agricultural practices are increasingly moving away from traditional fertilizers like urea due to their one-dimensional nutrient profiles and environmental impact. Calcium ammonium nitrate offers a more balanced nutrient solution, supplying both fast-acting nitrate nitrogen and stabilizing ammonium nitrogen along with calcium. This combination improves nutrient uptake efficiency and promotes robust plant growth, making CAN a preferred choice among progressive farmers and large-scale agribusinesses.

Governments across multiple agricultural economies are promoting the use of advanced fertilizers like CAN through subsidies, training programs, and regulatory reforms. For example, European countries have been encouraging nitrogen fertilizers with lower environmental footprints, while nations like India include CAN under essential Agro-inputs within government-supported procurement schemes. Such initiatives have increased both the accessibility and affordability of CAN, boosting its demand in the agriculture sector. CAN holds several agronomic advantages over traditional nitrogenous fertilizers such as urea or ammonium sulfate. It has low volatilization losses, does not acidify the soil to the same extent, and provides a dual nutrient impact (calcium and nitrogen), leading to improved crop quality and longer shelf life. These characteristics make it suitable for high-value crops like fruits, vegetables, and plantation crops further strengthening its position in agricultural markets.

Key Market Challenges

Growing Preference for Organic Fertilizers

Calcium Ammonium Nitrate, known for its hygroscopic properties, is primarily utilized as an inorganic fertilizer. However, the excessive use of such fertilizers can lead to environmental issues such as soil, water, and air pollution due to nutrient leaching and the accumulation of toxic chemicals. In response to these concerns, governments have launched various investments and initiatives to promote the use of organic or biofertilizers. For instance, in March 2022, the United States Department of Agriculture announced plans to invest a substantial amount of US\$250 million in promoting the production of sustainable and organic fertilizers nationwide. This initiative aims to support the transition towards environmentally friendly agricultural practices.

Key Market Trends

Adoption of Advanced Farming Technologies

Precision agriculture, the cutting-edge approach to farming, involves the strategic use of advanced tools such as global positioning systems (GPS), sensors, and data analytics. These tools empower farmers to monitor and manage agricultural practices with unrivaled precision. By precisely targeting nutrient application, including the optimized use of fertilizers like Calcium Ammonium Nitrate, the waste can be minimized, while crop efficiency is vastly improved.

To further enhance nutrient management, controlled-release fertilizers are specifically designed to gradually release nutrients over an extended period. This remarkable feature allows these fertilizers to align perfectly with the specific needs of crops. As a result, controlled-release fertilizers not only enhance nutrient uptake but also reduce leaching, minimizing the overall environmental impact. In the realm of sustainable nutrient management, Calcium Ammonium Nitrate can be formulated as a controlled-release fertilizer, making it compatible with advanced farming technologies.

Key Market Players

- Barium & Chemicals, Inc.
- Yara International ASA
- EuroChem Group
- Achema AB
- Origin Fertilizers Limited
- Fertinagro India Pvt. Ltd
- Agrico Canada
- San Corporation
- Helm AG
- Pakarab Fertilizers Limited

Report Scope:

In this report, the Global Calcium Ammonium Nitrate Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

-☐Calcium Ammonium Nitrate Market, By Application:

- o Fertilizers
- o Explosives
- o Others

-☐Calcium Ammonium Nitrate Market, By Region:

- o North America
 - ☐ United States
 - ☐ Canada
 - ☐ Mexico
- o Europe
 - ☐ France
 - ☐ United Kingdom
 - ☐ Italy
 - ☐ Germany
 - ☐ Spain
- o Asia-Pacific
 - ☐ China
 - ☐ India
 - ☐ Japan
 - ☐ Australia
 - ☐ South Korea
- o South America
 - ☐ Brazil
 - ☐ Argentina
 - ☐ Colombia
- o Middle East & Africa
 - ☐ South Africa
 - ☐ Saudi Arabia
 - ☐ UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Calcium Ammonium Nitrate Market.

Available Customizations:

Global Calcium Ammonium Nitrate Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-☐Detailed analysis and profiling of additional market players (up to five).

Table of 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

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 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, Trends
- 4. Impact of COVID-19 on Global Calcium Ammonium Nitrate Market
- 5. Voice of Customer
- 6. Calcium Ammonium Nitrate Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
 - 6.2. Market Share & Forecast
 - 6.2.1. By Application (Fertilizers, Explosives, Others)
 - 6.2.2. By Region
 - 6.2.3. By Company (2024)
 - 6.3. Market Map
- 7. North America Calcium Ammonium Nitrate Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
 - 7.2. Market Share & Forecast
 - 7.2.1. By Application
 - 7.2.2. By Country
 - 7.3. North America: Country Analysis
 - 7.3.1. United States Calcium Ammonium Nitrate Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value & Volume
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Application
 - 7.3.2. Canada Calcium Ammonium Nitrate Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value & Volume
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Application
 - 7.3.3. Mexico Calcium Ammonium Nitrate Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value & Volume
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Application
- 8. Europe Calcium Ammonium Nitrate Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value & Volume
 - 8.2. Market Share & Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.2.1. By Application
- 8.2.2. By Country
- 8.3. Europe: Country Analysis
 - 8.3.1. Germany Calcium Ammonium Nitrate Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value & Volume
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Application
 - 8.3.2. United Kingdom Calcium Ammonium Nitrate Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value & Volume
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Application
 - 8.3.3. Italy Calcium Ammonium Nitrate Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value & Volume
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Application
 - 8.3.4. France Calcium Ammonium Nitrate Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value & Volume
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Application
 - 8.3.5. Spain Calcium Ammonium Nitrate Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value & Volume
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Application
- 9. Asia-Pacific Calcium Ammonium Nitrate Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
 - 9.2. Market Share & Forecast
 - 9.2.1. By Application
 - 9.2.2. By Country
 - 9.3. Asia-Pacific: Country Analysis
 - 9.3.1. China Calcium Ammonium Nitrate Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value & Volume
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Application
 - 9.3.2. India Calcium Ammonium Nitrate Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value & Volume
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Application
 - 9.3.3. Japan Calcium Ammonium Nitrate Market Outlook
 - 9.3.3.1. Market Size & Forecast

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.3.3.1.1. By Value & Volume
- 9.3.3.2. Market Share & Forecast
- 9.3.3.2.1. By Application
- 9.3.4. South Korea Calcium Ammonium Nitrate Market Outlook
- 9.3.4.1. Market Size & Forecast
- 9.3.4.1.1. By Value & Volume
- 9.3.4.2. Market Share & Forecast
- 9.3.4.2.1. By Application
- 9.3.5. Australia Calcium Ammonium Nitrate Market Outlook
- 9.3.5.1. Market Size & Forecast
- 9.3.5.1.1. By Value & Volume
- 9.3.5.2. Market Share & Forecast
- 9.3.5.2.1. By Application
- 10. South America Calcium Ammonium Nitrate Market Outlook
- 10.1. Market Size & Forecast
- 10.1.1. By Value & Volume
- 10.2. Market Share & Forecast
- 10.2.1. By Application
- 10.2.2. By Country
- 10.3. South America: Country Analysis
- 10.3.1. Brazil Calcium Ammonium Nitrate Market Outlook
- 10.3.1.1. Market Size & Forecast
- 10.3.1.1.1. By Value & Volume
- 10.3.1.2. Market Share & Forecast
- 10.3.1.2.1. By Application
- 10.3.2. Argentina Calcium Ammonium Nitrate Market Outlook
- 10.3.2.1. Market Size & Forecast
- 10.3.2.1.1. By Value & Volume
- 10.3.2.2. Market Share & Forecast
- 10.3.2.2.1. By Application
- 10.3.3. Colombia Calcium Ammonium Nitrate Market Outlook
- 10.3.3.1. Market Size & Forecast
- 10.3.3.1.1. By Value & Volume
- 10.3.3.2. Market Share & Forecast
- 10.3.3.2.1. By Application
- 11. Middle East and Africa Calcium Ammonium Nitrate Market Outlook
- 11.1. Market Size & Forecast
- 11.1.1. By Value & Volume
- 11.2. Market Share & Forecast
- 11.2.1. By Application
- 11.2.2. By Country
- 11.3. MEA: Country Analysis
- 11.3.1. South Africa Calcium Ammonium Nitrate Market Outlook
- 11.3.1.1. Market Size & Forecast
- 11.3.1.1.1. By Value & Volume
- 11.3.1.2. Market Share & Forecast
- 11.3.1.2.1. By Application

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 11.3.2. Saudi Arabia Calcium Ammonium Nitrate Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value & Volume
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Application
- 11.3.3. UAE Calcium Ammonium Nitrate Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value & Volume
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Application
- 12. Market Dynamics
 - 12.1. Drivers
 - 12.2. Challenges
- 13. Market Trends & Developments
 - 13.1. Recent Developments
 - 13.2. Product Launches
 - 13.3. Mergers & Acquisitions
- 14. Global Calcium Ammonium Nitrate Market: SWOT Analysis
- 15. Pricing Analysis
- 16. PESTLE Analysis
- 17. Global Calcium Ammonium Nitrate Market: SWOT Analysis
- 18. Competitive Landscape
 - 18.1. Barium & Chemicals, Inc.
 - 18.1.1. Business Overview
 - 18.1.2. Product & Service Offerings
 - 18.1.3. Recent Developments
 - 18.1.4. Financials (If Listed)
 - 18.1.5. Key Personnel
 - 18.1.6. SWOT Analysis
 - 18.2. Yara International ASA
 - 18.3. EuroChem Group
 - 18.4. Achema AB
 - 18.5. Origin Fertilizers Limited
 - 18.6. Fertinagro India Pvt. Ltd
 - 18.7. Agrico Canada
 - 18.8. San Corporation
 - 18.9. Helm AG
 - 18.10. Pakarab Fertilizers Limited
- 19. Strategic Recommendations
- 20. About Us & Disclaimer

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Calcium Ammonium Nitrate Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Application (Fertilizers, Explosives, Others), By Region, & Competition, 2020-2030F

Market Report | 2025-08-25 | 180 pages | TechSci Research

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4500.00
	Multi-User License	\$5500.00
	Custom Research License	\$8000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-04

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Signature

A large, empty rectangular box with a thin black border, intended for a signature.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com