

Ammonium Nitrate Market Growth Analysis - Forecast Trends and Outlook (2025-2034)

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Report description:

The global ammonium nitrate market is expected to grow at a CAGR of 3.80% during the period 2025-2034.

Ammonium Nitrate Market Growth

Ammonium nitrate (NH₄NO₃) is manufactured by neutralising nitric acid (HNO₃) with ammonia (NH₃). Depending on the intended use, ammonium nitrate is sold in several forms. Liquid ammonium nitrate may be marketed as fertiliser, while liquid ammonium nitrate may be concentrated to produce an ammonium nitrate "melt" to be used in solids formation processes. Solid ammonium nitrate may be produced as prills, grains, granules, or crystals. According to melt concentration, produced prills could be high or low density. High-density crystals, prills, and granules are used as fertiliser while whole grains are employed for the manufacture of explosives. Low-density prills can be used in fertiliser as well as explosives. Ammonium nitrate is a fast-release fertiliser, and enables plants to quickly absorb nitrate and ammonium ions for immediate metabolism. Such factors open up new ammonium nitrate market opportunities in the long run.

Key Trends and Recent Developments

Sustainable practices, precision farming and regulatory compliance to shape the changing landscape and spur the growth of the ammonium nitrate market.

April 2024

A joint development agreement (JDA) has been signed by CF Industries Holdings, Inc. and JERA Co., Inc. (JERA) to investigate the possibility of developing a greenfield low-carbon ammonia production facility at CF Industries' Blue Point Complex in Louisiana.

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June 2023

Croda International Plc unveiled its new Global Technical Centre in Genome Valley, Hyderabad, India that aligns with their commitment to producing high-performance pharmaceutical ingredients and technology in Life Sciences, along with the company's Purpose of using Smart Science to enhance lives.

March 2024

Yara and GHC SAOC, a fully owned subsidiary of Acme Cleantech, India's renewable energy leader, have entered into a firm and binding agreement for the long-term supply of low carbon ammonia.

October 2023

Croda International Plc constructed a new multi-purpose production facility for perfumes and beauty-active chemicals in Guangzhou, China.

Sustainable Practices

Due to increasingly stringent environmental regulations, there is a drive for sustainable methods of producing and boosting the ammonium nitrate demand. Companies are developing low-emission technologies and controlled-release formulations that seek to lower environmental impact while improving the nutrient elution efficacy in agriculture.

Precision Farming

Thickening precision farming practices spur the demand for high-value ammonium nitrate products. That is, ways to optimise nutrient supply, increase yield, and reduce wastage, all flowing neatly in this direction of data-based agriculture.

Regulatory Compliance

Tightening safety and environmental regulations are shaping the growth of the ammonium nitrate industry. Investments by companies are currently in the measures to adapt their respective processes; for safe handling and least environmental damage, regulatory standards are set.

Technological Advancements

This industry is currently experiencing new technologies for the production of ammonium nitrate, also in terms of advancements in the manufacturing process, as well as product formulation. That means better performance, lower expenses, and the ability to produce for changing customers' needs in both industries: agriculture and industry. Such aspects ultimately accelerate the growth of ammonium nitrate market globally.

Ammonium Nitrate Market Trends

A key trend of the ammonium nitrate market is the use of ammonium nitrate across several industries. Several mining, quarrying, and construction industries use ammonium nitrate as a vital component of their blasting activities. In prill form, ammonium nitrate is a basic ingredient in ammonium nitrate fuel oil (ANFO) based products, and a key element (prill as well as liquid) in a wide range of customised bulk explosive blends. Ammonium nitrate (technical grade) is commonly employed as the main raw material for the production of civil explosives. It is also of primary use in fertiliser production. Low-density ammonium nitrate explosive is

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widely employed in the mining industry. It is produced to be very porous to allow the rapid uptake of liquid fuel oil. The prill is covered with trace amounts of waxy anti-caking material to improve flowability and handling characteristics. Hot ammonium nitrate liquor is also used in the mining industry and thus boost the demand of ammonium nitrate globally.

Ammonium Nitrate Industry Segmentation

"Ammonium Nitrate Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

By application, the market is segmented into:

- Fertilisers
- Explosives
- Others

By regions, the market is classified into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Ammonium Nitrate Market Share

Precision Farming And Controlled-Release Formulations To Boost The Use Of Ammonium Nitrate In The Fertilizer Sector

The global ammonium nitrate market is expected to be driven by the fertiliser industry. With a growing world population, the demand for food has been rising, which in turn raises the demand for fertilisers. Ammonium nitrate is a key fertiliser ingredient, and hence, likely to witness increased demand from the fertiliser industry.

The role of ammonium nitrate in fertilisers is gathering momentum as this opens doors for new possibilities in farming, such as precision farming and controlled-release formulations. This not only boosts the ammonium nitrate market revenue but also ensures optimised delivery of nutrients with reduced environmental impact for healthier soils. The more technology that gets integrated into agriculture, the more critical a role ammonium nitrate can play in enhancing efficiency and sustainability.

Ammonium Nitrate Market Regional Analysis

Europe To Gain The Highest Market Share For The Use Of Low-Emission Fertilisers

As per ammonium nitrate industry analysis, ammonium nitrate fertiliser is very popular in the majority of European countries. The high demand for ammonium nitrate in Europe is driven by stringent environmental regulations, with efficient and low-emission fertilisers being favoured. In addition, the emphasis that Europe has on sustainable agriculture and precision farming further enhances the requirement for high-performance fertilisers. In tandem, the demands for effective nutrient delivery from ammonium nitrate are fanned by intensive farming practices and the urge to achieve food security.

In 2019, the world production and evident consumption of ammonium nitrates stood at over 20 million metric tons, of which

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nearly 80% and 19% accounted for ammonium nitrate and calcium-ammonium nitrate (CAN) respectively. Due to safety concerns associated with ammonium nitrate, calcium-ammonium nitrate (CAN) production has witnessed an increase in demand. These safety concerns may also negatively impact demand for ammonium nitrate.

Ammonium nitrate (electronics grade) is used in the electronics industry in Europe. Pure forms of ammonium nitrate are used to produce high-quality nitrous oxide (N₂O) to be used in the electronics industry. This, in turn, increases ammonium nitrate market share in Europe. Nitrous oxide is required for VLSI (very large-scale integration) or ULSI (ultra-large-scale integration). It is used in the gas-phase chemical deposition stage in the manufacture of semiconductors, LCD displays and thin-film oxides for products such as computers, smart phones, robots, cars, health devices, and space rockets.

Ammonium nitrate (medical grade) is also a vital component in the healthcare industry. It is a key element in the nitrous oxide gas used in the manufacture of anaesthetics employed in dentistry and surgery and as a propellant for drugs packaged in aerosols. Other applications of ammonium nitrate include cold packs and food additives.

Competitive Landscape

Key players in the ammonium nitrate market are focussing on innovations such as high-efficiency fertilisers and green processes to bolster the ammonium nitrate industry revenue. They spend on R&D for controlled release, further supply chain optimization work, and expansion into new geographies while adhering to tightened regulations that lower the impact on the environment.

CF Fertilisers UK

CF Fertilisers UK, located in Cheshire, United Kingdom, was formed in 2005 as a subsidiary of CF Industries Holdings, Inc. The group offers ammonium nitrate products in granular and prilled forms. These products are developed for agriculture and industry, targeting high effectiveness with less harm to the environment.

Croda International Plc

Croda International Plc, based in Goole, United Kingdom, and formed in 1925, trades in specialty chemicals and additives for farming.

Yara International ASA

Yara International ASA, headquartered in Oslo, Norway, was incorporated in 1905, has products that include ammonium nitrate in forms such as granular, prilled, and solution. Yara products are to increase agricultural productivity through advanced nutrient delivery and sustainability practices.

Orica Limited

Orica Limited, based in Melbourne, Australia, and established in 1874, specialises in ammonium nitrate supplies for the mining and construction industries. Their products include bulk and packaged ammonium nitrate explosives developed to enhance safety, productivity, and blast performance in a wide range of applications.

Other key players in the ammonium nitrate market report include Maxamcorp Holding, S.L., and Sasol Limited, among others.

More Insights On:

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Ammonium Nitrate MarketReport Snapshots

Ammonium NitrateCompanies

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