

Global Ammonium Sulfate Market Outlook to 2027

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Abstracts

Ammonium sulfate has an excessive sulfur content in the sulfate form, which occurs naturally in volcanic fumaroles as a rare mineral, mascagnite, and it is an organic salt which is prepared by treatment of ammonia along with sulphuric acid as a by-product from coke-ovens, and it is also prepared by treatment of ammonium carbonate with gypsum to give calcium carbonate in precipitated form leaving ammonium sulfate in solution form. According to BlueQuark Research & Consulting, the global Ammonium Sulfate market is expected to witness a significant growth rate during the forecast period. Factors such as its increasing demand in the agriculture industry for making fertilizers for alkaline soils, which provide essential nitrogen for plant growth, and demand as a critical ingredient for making many vaccines in Pharmaceutical Industry, drive the current Ammonium Sulfate market. Further, its uses as a food additive and vital chemical in water treatment processes also propel the Ammonium Sulfate market. Furthermore, advancement and implementation of production techniques such as vacuum thermal stripping and vacuum absorption process are expected to drive the Ammonium sulfate market growth in the forecasted period. However, the accessibility of substitutes like ammonium nitrate and the overprice of producing ammonium sulfate might hinder its growth in the forecasted period.

Ammonium Sulfate is utilized to make fertilizers, as an agricultural spray along with herbicides, insecticides, and fungicides, as a protein purifying agent, as food additives, in the treatment of drinking water and flame retardant compositions. It serves various grades and end-users such as agriculture, pharmaceutical, food, and water treatment. The vacuum Absorption techniques are of the innovative manufacturing techniques developed and are being worn by companies to produce ammonium sulfate granules.

The Agriculture Industry is a primary consumer of Ammonium Sulfate globally and is expected to drive the future market. Ammonium sulfate is primarily worn as a fertilizer for alkaline soils in this industry. It releases the ammonium ion and forms acid, which

lowers soil PH balance while providing the required nitrogen for plant growth. Properties of Ammonium Sulfate, like binding iron and calcium cations present in both water and plant cells, make it particularly effective as a spray adjuvant for water-soluble herbicides, insecticides, and fungicides. The growing population has increased the demand for food resulting in increased production of crops, thus surging the fertilizers market. Around three-fourths of total Ammonium sulfate produced globally is consumed by the agriculture industry for producing fertilizers. It is highly effective for the crops like rice, soybean, potatoes, and sour fruits. Furthermore, Ammonium Sulfate is generally recognized as safe (GRAS), making it ideal to be used as a food additive in the food industry. The Food Industry has a critical role in a country's economic growth, and the global food industry has risen significantly over the last ten years. One of the key drivers of the global food industry is the increasing demand for food additives for stabilizing food. Ammonium Sulfate has functions like an acidity regulator in bread and flour. It is a by-product of caprolactam which is used for manufacturing nylon fibers. Therefore, the increase in demand for nylon fiber has also increased the supply of Ammonium Sulfate. Ammonium Sulfate is also used with chlorine for disinfection and treatment of water. Industrial grade ammonium Sulfate is inefficient in pharmaceutical and food applications. Therefore, its uses are boosting in the pulp and chipboard industry. The Industrial grade ammonium sulfate is also used in the leather industry as a delimiting agent, thus growing the Global Ammonium Sulfate market.

The Asia-Pacific is expected to be the largest market for Ammonium Sulfate in the forecasted year. Due to the increasing population in the region, the demand for Fertilizers is rising to satisfy the food demands of the people. Due to surging coffee and rice cultivation, Indonesia is among the top consumers of Ammonium Sulfate, followed by China, India, and Vietnam. China is a chief producer of Nitrogen-based fertilizers; therefore, the lockdown in China had a significant effect on the fertilizer trade in the area. The impact was extreme due to a labor shortage and transport problems. As China was the first country to become the sufferer of the Corona Virus, the early lockdown in the country enhanced India's exports of Ammonium Sulfate. The vacuum thermal stripping process grants the manufacturer to produce granules of ammonium sulfate, and the ammonia recovery process comprises vacuum thermal stripping with acid absorption in which the ammonia is stripped out of digestate boiling at the temperature below the boiling point using vacuum. The excessive efficiency of the vacuum stripping production technique coupled with high purity output is expected to increase the adoption rate in manufacturers. Increased demand for pure ammonium sulfate from end-use sectors is likely to drive market growth. India exported 3500 MT Ammonium Sulfate to Nepal in June 2020. India, among the largest producers and consumers of Ammonium Sulfate in the region, has an installed capacity of 2,25,000 MT

per annum, but only 63% (1.4 lakh MT) was produced in 2018-19. Asia-Pacific region also had a massive market for the food industry, thus increasing the demand for ammonium sulfate used as a food additive. The large population also has a high demand for freshwater, thus driving the region's water treatment industry.

Major global players in the industry are Evonik Industries, BASF SE, Sumitomo Chemical Co. Ltd., Nutrien Ltd., and Lanxess.

In June 2021, the Union Cabinet of India raised the subsidies for DAP and other ammonia-based fertilizers by 14,775 crores to keep the crop nutrients prices low for the farmers. This move by the Govt. of India has been a great relief to the farmers amid the pandemic.

Global Ammonium Sulfate Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Ammonium Sulfate market by segmenting based on the Form (Solid and Liquid), End-User Industry (Agriculture, Pharmaceuticals, Food and Additives, Water Treatment, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. This study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. The report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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