Nitrogen Market to Surge, Projected to Hit USD 71.7 Billion by 2032 | SNS Insider

Increasing industrial and agricultural demand, along with advancements in nitrogen production and sustainability, is driving Nitrogen Market growth.

Nitrogen Market

AUSTIN, TX, UNITED STATES, February 21, 2025 /EINPresswire.com/ -- The nitrogen market was valued at USD 36.6 billion in 2023 and is projected to reach USD 71.7 billion by 2032, growing at a CAGR of 7.8% from 2024 to 2032. The nitrogen market is driven by increased utilization of nitrogen in the food and beverage industry for packaging, increased demand for cryogenics in healthcare, and extensive use of nitrogen in electronics. Additionally, advancements in nitrogen production and purification methodologies are continuing to provide additional directions for market opportunities. Moreover, strict environmental policies on emissions from industries are fuelling the adoption of nitrogen-based solutions for cleaner and more efficient industrial processes.

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Key Players:

- Air Liquide SA (Liquid Nitrogen, Nitrogen Gas, Nitrogen Purity Solutions)
- Air Products and Chemicals Inc. (Nitrogen Gas, Cryogenic Nitrogen, High Purity Nitrogen)
- Air Water Inc. (Liquid Nitrogen, Nitrogen Gas, Nitrogen Blending Solutions)
- BASF SE (Ammonia, Nitrogen Fertilizers, Urea)
- CanAir Nitrogen Inc. (Nitrogen Gas, Liquid Nitrogen, High Purity Nitrogen)
- Chengdu Taiyu Industrial Gases Co. Ltd. (Nitrogen Gas, Liquid Nitrogen, Nitrogen Generators)
- CF Industries Holdings Inc. (Ammonia, Urea, Nitrogen Fertilizers)
- Dow Chemical Company (Nitrogen Fertilizers, Ammonia, Urea)
- DuPont de Nemours Inc. (Ammonium Nitrate, Nitrogen Fertilizers, Industrial Nitrogen)
- Emirates Industrial Gases Co. LLC (Nitrogen Gas, Liquid Nitrogen, Nitrogen Solutions)
- EuroChem Group AG (Ammonia, Nitrogen Fertilizers, Urea)

- Gulf Cryo (Nitrogen Gas, Liquid Nitrogen, Industrial Gases)
- Linde plc (Nitrogen Gas, Liquid Nitrogen, Nitrogen Purity Solutions)
- Messer Group GmbH (Nitrogen Gas, Liquid Nitrogen, Nitrogen Generators)
- Mitsubishi Chemical Corporation (Nitrogen Fertilizers, Ammonia, Nitrogen Gas)
- NexAir LLC (Nitrogen Gas, Liquid Nitrogen, Nitrogen Purity Solutions)
- Nutrien Ltd. (Ammonia, Urea, Nitrogen Fertilizers)
- OCI Co. Ltd. (Ammonia, Urea, Nitrogen Fertilizers)
- Praxair Technology Inc. (Nitrogen Gas, Liquid Nitrogen, High Purity Nitrogen)
- Yara International ASA (Ammonia, Nitrogen Fertilizers, Urea)

By Product Type, Compressed Nitrogen Segment the Largest Market Share of Around 70% in 2023

Compressed nitrogen is a widely used product that serves several applications, ranging from food storage, pharmaceuticals, computers, and metals manufacturing. Liquid nitrogen is stored under high pressure, and this is the main reason that it is popular, also it is much easy to carry, and store in an extra amount in the cylinder, so it is the best solution for those processes inside, which require a continuous flow of nitrogen in a way to collect the output. Packaging and shelf-life extension in the food and beverage industry by creating an inert environment and avoiding oxidation using compressed nitrogen in a related way, in electronics it is used in the semiconductor industry and its purity needs to be at higher levels to be used as components.

By Application, Petrochemical Segment Led the Market, Representing Around 35% of the Total Share in 2023

Nitrogen gas is widely used in the chemical manufacturing process to maintain safety and optimize the process. In the petrochemical industry, nitrogen is used widely for purging, blanketing, inerting, and other applications. The process of using nitrogen to replace oxygen to reduce the chance of hazardous reactions or explosions between flammable materials that are handled in a factory. Further, nitrogen is utilized to purge pipelines and equipment with inert nitrogen atmosphere during maintenance, cleaning, or shut downs for safety operations.

By Distribution Channel, Direct Sales Accounted for Around 60% of the Market Share in 2023

Industries that demand a continuous and reliable supply of nitrogen with high quality like healthcare, food processing, and electronics manufacturing especially prefer direct sales. It allows suppliers to develop a direct relationship with clients and provide solutions tailored exactly to their needs, all while guaranteeing the immediate supply of high-purity nitrogen for sensitive applications. In addition, direct sales make logistics easy, which comes handy for industries with tight timelines as they can expect reliable delivery schedules. Direct sales is the preferred choice for companies involved in high-volume nitrogen usage, such as chemical manufacturing and pharmaceuticals, since this provides bulk orders that are both efficient and cost-effective.

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Asia-Pacific Dominated the Market with a Share of 40% in 2023

The Asia-Pacific region is the largest market for nitrogen, driven by high demand from the agriculture, electronics, and chemical industries. Countries like China, India, and Japan are witnessing rapid industrialization and agricultural advancements, increasing the consumption of nitrogen-based products. Additionally, government initiatives promoting sustainable agriculture and food security are further boosting demand. The region is also seeing a rise in investments in nitrogen production facilities, with companies such as Mitsubishi Chemical Holdings and Taiyo Nippon Sanso expanding their production capacities. The increasing use of nitrogen in semiconductor manufacturing and medical applications is further solidifying Asia-Pacific's position as a dominant player in the market.

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