

Nitrogen Gas Market Size, Share & Trends Analysis Report By Form (Compressed Gas, Liquid Nitrogen Gas), By Application (Food & Beverages, Chemicals), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Nitrogen Gas Market Growth & Trends

The global nitrogen gas market size is anticipated to reach USD 44.28 billion by 2030, with a healthy CAGR of 6.4% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market growth is anticipated to be driven by the increased manufacturing of packaged food, medicines, pharmaceuticals, and electronics, thereby proliferating the industry growth.

The rising demand for convenience foods and the growing global food trade further amplify the product demand in food packaging. Manufacturers rely on nitrogen flushing to meet these demands as consumers seek options such as fresh food with extended shelf life. Also, the growing consumption of packaged food among the urban population and increasing demand for single-serve packs are further expected to spur industry growth.

Strict environmental regulations, such as the Clean Air Act, EPA regulations, and the Kyoto Protocol, challenge the nitrogen gas industry. These regulations are crucial for environmental protection but are likely to hinder market growth. Governments worldwide are implementing measures to reduce greenhouse emissions; thus, product manufacturers need to comply with these policies. An increasing emphasis on CSR initiatives is compelling product manufacturers to prioritize sustainability.

Adopting environmentally friendly production practices and reducing carbon footprints aids in regulatory compliance and also enhances corporate brand image, potentially attracting a segment of environmentally conscious consumers.

However, the natural gas prices below depict significant price volatility that creates uncertainty for nitrogen gas producers and end users. The fluctuating input costs directly impact the cost of nitrogen production and, thus, the final pricing of the product, hindering overall market growth.

Nitrogen Gas Market Report Highlights

The compressed gas segment is expected to witness a robust CAGR of 6.1% over the forecast period. Compressed gas offers a cost-effective and efficient solution for high-production facilities, making cryogenic fractional distillation a widely adopted technology to produce high-purity industrial gases. This segment growth is anticipated to increase in cylinder systems associated with cryogenic fractional distillation, pressure swing adsorption, and membrane separation over the projected period.

The electronics application segment is likely to grow at the fastest CAGR of 6.7% over the coming years. Increasing disposable income, ongoing advancements in technology, and the surging popularity of new gadgets among both younger and older populations are enhancing the growth of the electronics industry. This, in turn, aids the production of electronic devices that eventually require nitrogen to provide an oxygen- and moisture-free environment. End users prefer onsite plants to meet the growing product demand and take steps toward decarbonization.

Asia Pacific is expected to witness the fastest CAGR of 6.8% over the forecast period. Nitrogen gas is widely used in various industries, such as electronics, pharmaceuticals, petrochemicals, and food packaging, for inerting, blanketing, and purging to prevent oxidation.

The regional market is characterized by front- and back-end manufacturing. According to the Semiconductor Manufacturing Association, about 75% of the total global wafer fabrication, assembly, testing, and packaging of 7-nanometer chips is concentrated in the region. The far-reaching policies in the U.S. and European semiconductors industry have altered the Asia Pacific industry.

The key players in the market include Air Products and Chemicals, Inc., Air Water America, Inc., Linde plc, Messer Group, and Praxair Technology, Inc. These companies dominate the global market with a substantial presence throughout the value chain.

In September 2023, Air Water America Inc. acquired American Gas Products LLC, a producer of industrial and specialty gas in the U.S., to expand its presence in the North American market and strengthen its product portfolio.

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