

Global Nitrogen Gas Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nitrogen Gas market size is expected to reach \$ 52826 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Nitrogen Gas is an inert, colorless, odorless diatomic gas that constitutes about 78% of Earth's atmosphere and is widely used in industrial processes as a protective, blanketing, purging, cooling, and pressurizing gas. Industrial nitrogen is primarily produced by air separation, where atmospheric air is compressed and processed using cryogenic distillation, pressure swing adsorption (PSA), or membrane separation technologies to isolate high-purity nitrogen. The supply chain begins with air intake and purification, followed by air separation units (ASUs) operated by industrial gas companies to produce nitrogen in gaseous or liquid form. After production, nitrogen is compressed or liquefied and distributed through pipelines, bulk tankers, or high-pressure cylinders to end users. Downstream industries include electronics and semiconductor manufacturing, chemicals and petrochemicals, food and beverage packaging (modified atmosphere packaging), oil and gas operations, pharmaceuticals, metal fabrication, and industrial manufacturing, where nitrogen is used for inerting, oxidation prevention, cryogenic cooling, and process atmospheres. In 2025, global Nitrogen Gas output was about 210 million tons with 290 million tons of capacity, average prices of USD 150 ? 220 per ton, and gross margins around 27%.

This report studies the global Nitrogen Gas production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nitrogen Gas and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Nitrogen Gas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nitrogen Gas total production and demand, 2021-2032, (Tons)

Global Nitrogen Gas total production value, 2021-2032, (USD Million)

Global Nitrogen Gas production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nitrogen Gas consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nitrogen Gas domestic production, consumption, key domestic manufacturers and share

Global Nitrogen Gas production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nitrogen Gas production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nitrogen Gas production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nitrogen Gas market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde (Ireland), Air Liquide (France), Air Products (USA), Messer Group (Germany), Nippon Sanso (Japan), Air Water (Japan), SOL Group (Italy), Yingde Gases (China), INOX Air Products (India), Ellenbarrie Industrial Gases (India), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nitrogen Gas market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nitrogen Gas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nitrogen Gas Market, Segmentation by Type:

Industrial Grade

High-Purity Grade

Ultra-High-Purity Grade

Global Nitrogen Gas Market, Segmentation by Production Method:

Cryogenic Nitrogen

Pressure Swing Adsorption Nitrogen

Membrane Nitrogen

Global Nitrogen Gas Market, Segmentation by Application:

Petrochemical

Semiconductor

Food & Beverage

Oil & Gas

Metallurgy

Pharmaceutical

Others

Companies Profiled:

Linde (Ireland)

Air Liquide (France)

Air Products (USA)

Messer Group (Germany)

Nippon Sanso (Japan)

Air Water (Japan)

SOL Group (Italy)

Yingde Gases (China)

INOX Air Products (India)

Ellenbarrie Industrial Gases (India)

Bhuruka Gases (India)

Asia Industrial Gases (Singapore)

Westfalen Group (Germany)

Coregas (Australia)

Key Questions Answered:

1. How big is the global Nitrogen Gas market?
2. What is the demand of the global Nitrogen Gas market?
3. What is the year over year growth of the global Nitrogen Gas market?
4. What is the production and production value of the global Nitrogen Gas market?
5. Who are the key producers in the global Nitrogen Gas market?
6. What are the growth factors driving the market demand?

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