

Global Industrial Nitrogen Market Size Study, by Form (Liquid, Compressed), by Technology (Cryogenic Distillation, Membrane Separation), by Transportation (Cylinder, Bulk, Pipeline), by End Use Industry (Metal Manufacturing, Food & Beverage), and Regional Forecasts 2022-2032

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Abstracts

The Global Industrial Nitrogen Market is valued at approximately USD 21.12 billion in 2023 and is anticipated to grow with a healthy growth rate of 5.83% over the forecast period 2024-2032. Industrial nitrogen, a highly versatile and inert gas, plays a pivotal role across various sectors due to its unique properties. It is extensively used for preserving perishables, ensuring precision in manufacturing, and creating controlled atmospheres. Available in forms such as liquid and compressed, nitrogen finds applications ranging from food and beverage storage to metal fabrication, showcasing its indispensability across industries. Its capability to inhibit oxidation and control environmental variables makes it an integral component in modern industrial operations.

The expansion of the industrial nitrogen market is largely driven by advancements in cryogenic distillation and membrane separation technologies, which enhance production efficiency. The growing demand in the food and beverage sector, for processes like packaging and preservation, fuels market growth. In addition, the metal manufacturing industry increasingly relies on nitrogen for heat treatment and as a protective gas, further strengthening its market position. However, challenges such as the high cost of nitrogen production technologies and stringent environmental regulations may limit market growth. Nonetheless, the development of cost-efficient production methods and expanding usage in emerging markets present lucrative opportunities.

Globally, the industrial nitrogen market demonstrates diverse growth dynamics across regions. North America remains a key player, leveraging advanced technologies and robust industrial activity. Europe follows closely, driven by stringent food safety standards and innovation in nitrogen applications. Meanwhile, the Asia Pacific region is expected to grow at the fastest rate, fueled by rapid industrialization and rising demand in countries like China and India. Latin America and the Middle East & Africa regions exhibit promising growth prospects, supported by infrastructural development and increasing adoption of nitrogen in varied industries.

Prominent companies in the Global Industrial Nitrogen Market include Air Products and Chemicals, Inc., Linde PLC, Air Liquide, Messer Group, Praxair Technology, Inc., Gulf Cryo, Southern Industrial Gas Sdn. Bhd., Taiyo Nippon Sanso Corporation, Nexair LLC, Matheson Tri-Gas Inc., Iwatani Corporation, Universal Industrial Gases, Inc., Parker Hannifin Corporation, Bhuruka Gases Limited, and Ellenbarrie Industrial Gases.

The detailed segments and sub-segments of the market are explained below:

By Form

Liquid

Compressed

By Technology

Cryogenic Distillation

Membrane Separation

By Transportation

Cylinder

Bulk

Pipeline

By End Use Industry

Metal Manufacturing

Food & Beverage

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of

major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

Contents

CHAPTER 1. GLOBAL INDUSTRIAL NITROGEN MARKET EXECUTIVE SUMMARY

1.1. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECAST (2022-2032)

- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Form
 - 1.3.2. By Technology
 - 1.3.3. By Transportation
 - 1.3.4. By End Use Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL INDUSTRIAL NITROGEN MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. RESEARCH OBJECTIVE

- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL INDUSTRIAL NITROGEN MARKET DYNAMICS

3.1. MARKET DRIVERS

- 3.1.1. Advancements in Cryogenic Distillation Technologies
- 3.1.2. Growing Demand in the Food & Beverage Sector
- 3.1.3. Increasing Reliance in Metal Manufacturing
- 3.2. Market Challenges
 - 3.2.1. High Production Costs of Nitrogen Technologies
 - 3.2.2. Stringent Environmental Regulations
- 3.3. Market Opportunities
 - 3.3.1. Development of Cost-Efficient Production Methods
 - 3.3.2. Expansion in Emerging Markets
 - 3.3.3. Increased Adoption in Diverse Industries

CHAPTER 4. GLOBAL INDUSTRIAL NITROGEN MARKET INDUSTRY ANALYSIS

4.1. PORTER'S 5 FORCE MODEL

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top Investment Opportunities
- 4.4. Top Winning Strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECASTS BY FORM 2022-2032

5.1. SEGMENT DASHBOARD

5.2. Global Industrial Nitrogen Market: Form Revenue Trend Analysis, 2022 & 2032

Global Industrial Nitrogen Market Size Study, by Form (Liquid, Compressed), by Technology (Cryogenic Distillat...

(USD Million/Billion)

5.2.1. Liquid

5.2.2. Compressed

CHAPTER 6. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032 6.1. SEGMENT DASHBOARD

6.2. Global Industrial Nitrogen Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. Cryogenic Distillation

6.2.2. Membrane Separation

CHAPTER 7. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECASTS BY TRANSPORTATION 2022-2032 7.1. SEGMENT DASHBOARD

7.2. Global Industrial Nitrogen Market: Transportation Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

7.2.1. Cylinder

7.2.2. Bulk

7.2.3. Pipeline

CHAPTER 8. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECASTS BY END USE INDUSTRY 2022-2032 8.1. SEGMENT DASHBOARD

8.2. Global Industrial Nitrogen Market: End Use Industry Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

8.2.1. Metal Manufacturing

8.2.2. Food & Beverage

CHAPTER 9. GLOBAL INDUSTRIAL NITROGEN MARKET SIZE & FORECASTS BY REGION 2022-2032 9.1. NORTH AMERICA INDUSTRIAL NITROGEN MARKET

9.1.1. U.S. Industrial Nitrogen Market

9.1.1.1. Liquid Form Breakdown Size & Forecasts, 2022-2032

9.1.1.2. Compressed Form Breakdown Size & Forecasts, 2022-2032

9.1.2. Canada Industrial Nitrogen Market

9.2. Europe Industrial Nitrogen Market

9.2.1. UK Industrial Nitrogen Market

9.2.2. Germany Industrial Nitrogen Market

- 9.2.3. France Industrial Nitrogen Market
- 9.2.4. Spain Industrial Nitrogen Market
- 9.2.5. Italy Industrial Nitrogen Market
- 9.2.6. Rest of Europe Industrial Nitrogen Market
- 9.3. Asia-Pacific Industrial Nitrogen Market
 - 9.3.1. China Industrial Nitrogen Market
 - 9.3.2. India Industrial Nitrogen Market
 - 9.3.3. Japan Industrial Nitrogen Market
 - 9.3.4. Australia Industrial Nitrogen Market
 - 9.3.5. South Korea Industrial Nitrogen Market
 - 9.3.6. Rest of Asia Pacific Industrial Nitrogen Market
- 9.4. Latin America Industrial Nitrogen Market
 - 9.4.1. Brazil Industrial Nitrogen Market
 - 9.4.2. Mexico Industrial Nitrogen Market
 - 9.4.3. Rest of Latin America Industrial Nitrogen Market
- 9.5. Middle East & Africa Industrial Nitrogen Market
 - 9.5.1. Saudi Arabia Industrial Nitrogen Market
 - 9.5.2. South Africa Industrial Nitrogen Market
 - 9.5.3. Rest of Middle East & Africa Industrial Nitrogen Market

CHAPTER 10. COMPETITIVE INTELLIGENCE 10.1. KEY COMPANY SWOT ANALYSIS

- 10.1.1. Air Products and Chemicals, Inc.
- 10.1.2. Linde PLC
- 10.1.3. Air Liquide
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Air Products and Chemicals, Inc.
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
 - 10.3.2. Linde PLC
 - 10.3.3. Air Liquide
 - 10.3.4. Messer Group
 - 10.3.5. Praxair Technology, Inc.
 - 10.3.6. Gulf Cryo

- 10.3.7. Southern Industrial Gas Sdn. Bhd.
- 10.3.8. Taiyo Nippon Sanso Corporation
- 10.3.9. Nexair LLC
- 10.3.10. Matheson Tri-Gas Inc.

CHAPTER 11. RESEARCH PROCESS 11.1. RESEARCH PROCESS

- 11.1.1. Data Mining
- 11.1.2. Analysis
- 11.1.3. Market Estimation
- 11.1.4. Validation
- 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Industrial Nitrogen Market, Report Scope

TABLE 2. Global Industrial Nitrogen Market Estimates & Forecasts by Region
2022-2032 (USD Million/Billion)

TABLE 3. Global Industrial Nitrogen Market Estimates & Forecasts by Form 2022-2032
(USD Million/Billion)

TABLE 4. Global Industrial Nitrogen Market Estimates & Forecasts by Technology
2022-2032 (USD Million/Billion)

TABLE 5. Global Industrial Nitrogen Market Estimates & Forecasts by Transportation
2022-2032 (USD Million/Billion)

TABLE 6. Global Industrial Nitrogen Market Estimates & Forecasts by End Use Industry
2022-2032 (USD Million/Billion)

TABLE 7. Global Industrial Nitrogen Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 8. Global Industrial Nitrogen Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 9. Global Industrial Nitrogen Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 10. Global Industrial Nitrogen Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 11. Global Industrial Nitrogen Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 12. Global Industrial Nitrogen Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 13. Global Industrial Nitrogen Market by Segment, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 14. Global Industrial Nitrogen Market by Region, Estimates & Forecasts,
2022-2032 (USD Million/Billion)

TABLE 15. U.S. Industrial Nitrogen Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 16. U.S. Industrial Nitrogen Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 17. U.S. Industrial Nitrogen Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 18. Canada Industrial Nitrogen Market Estimates & Forecasts, 2022-2032 (USD
Million/Billion)

TABLE 19. Canada Industrial Nitrogen Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

TABLE 20. Canada Industrial Nitrogen Market Estimates & Forecasts by Segment
2022-2032 (USD Million/Billion)

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This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

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