

Global Helium Market Size Study, by Phase (Liquid, Gas), by Application (Leak Detection, Welding, Breathing Mixes, Pressurizing & Purging, Controlled Atmosphere), by End-use (Aerospace & Defense, Medical & Healthcare, Electronics & Electrical, Nuclear Power, Metal Fabrication), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GA2B18DF4D48EN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GA2B18DF4D48EN

Abstracts

The Global Helium Market is valued approximately at USD 3.61 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.70% over the forecast period 2024-2032. Helium, a noble gas with unique chemical and physical properties, has become an indispensable resource across various industries. From ensuring the accuracy of leak detection systems to creating inert environments in metal fabrication, helium serves as a cornerstone in advanced manufacturing and innovation-driven sectors. Its critical role in applications such as cooling nuclear reactors, powering medical imaging technologies, and enabling cutting-edge aerospace developments underscores its growing significance. The increasing global demand for helium aligns with the rise in technological advancements and heightened focus on efficiency and safety.

One of the primary growth drivers for the helium market is its escalating demand in electronics and healthcare industries. In the electronics sector, helium's thermal conductivity and non-reactive properties are crucial for semiconductor manufacturing. In healthcare, helium is a key component of magnetic resonance imaging (MRI) systems, enabling high-resolution diagnostics. Additionally, the gas's usage in controlled atmospheres for space exploration and in breathing mixes for deep-sea diving highlights its versatility. Despite its extensive utility, challenges such as limited natural reserves

and high extraction costs pose obstacles to market growth. However, innovations in extraction and storage technologies promise to mitigate these constraints, paving the way for expanded accessibility.

Regionally, North America dominates the helium market, benefiting from robust industrial demand and well-established extraction infrastructure. The U.S. is a major helium producer, bolstered by its rich reserves and advanced refining capabilities. Meanwhile, the Asia-Pacific region is emerging as a key market player, fueled by rapid industrialization, growing investments in electronics, and increasing healthcare needs. This regional interplay reflects the dynamic and multifaceted growth opportunities across the helium market landscape.

Leading market players are actively investing in sustainable extraction methods and diversifying their application portfolios to maintain competitive advantage. Strategic partnerships and innovative product developments are central to their market strategies, addressing evolving consumer and industry demands effectively.

Major market players included in this report are:

Linde plc

Air Products and Chemicals, Inc.

Praxair Technology, Inc.

Air Liquide S.A.

Messer Group GmbH

Gazprom PJSC

Iwatani Corporation

Gulf Cryo

Taiyo Nippon Sanso Corporation

Buzwair Industrial Gases Factories

Matheson Tri-Gas, Inc.

ExxonMobil Corporation

Global Gases Group

Dominion Gas Ltd.

American Gas Products

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

By Phase:

Liquid

Gas

By Application:

Leak Detection

Welding

Breathing Mixes

Pressurizing & Purging

Controlled Atmosphere

By End-use:

Aerospace & Defense

Medical & Healthcare

Electronics & Electrical

Nuclear Power

Metal Fabrication

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 and forecasts spanning a decade, from 2022 to 2032.

Annualized revenue insights and in-depth regional analysis for all segments.

Comprehensive geographical breakdown, including country-level analysis.

Competitive landscape featuring major players and their market strategies.

Analysis of market trends, challenges, and opportunities with actionable recommendations.

Contents

CHAPTER 1. GLOBAL HELIUM MARKET EXECUTIVE SUMMARY 1.1. GLOBAL HELIUM MARKET SIZE & FORECAST (2022-2032)

- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Phase
 - 1.3.2. By Application
 - 1.3.3. By End-use
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL HELIUM 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 HELIUM MARKET DYNAMICS 3.1. MARKET DRIVERS

- 3.1.1. Increasing Demand in Electronics and Healthcare Industries

- 3.1.2. Advancements in Extraction and Storage Technologies
- 3.1.3. Growing Aerospace & Defense Applications
- 3.2. Market Challenges
 - 3.2.1. Limited Natural Reserves
 - 3.2.2. High Extraction and Production Costs
- 3.3. Market Opportunities
 - 3.3.1. Expansion in Renewable Energy Sector
 - 3.3.2. Innovations in Helium Applications
 - 3.3.3. Growth in Emerging Markets

CHAPTER 4. GLOBAL HELIUM 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 HELIUM MARKET SIZE & FORECASTS BY PHASE 2022-2032 5.1. SEGMENT DASHBOARD

- 5.2. Global Helium Market: Phase Revenue Trend Analysis, 2022 & 2032 (USD Million)
 - 5.2.1. Liquid
 - 5.2.2. Gas

CHAPTER 6. GLOBAL HELIUM MARKET SIZE & FORECASTS BY APPLICATION 2022-2032 6.1. SEGMENT DASHBOARD

6.2. Global Helium Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 6.2.1. Leak Detection
- 6.2.2. Welding
- 6.2.3. Breathing Mixes
- 6.2.4. Pressurizing & Purging
- 6.2.5. Controlled Atmosphere

CHAPTER 7. GLOBAL HELIUM MARKET SIZE & FORECASTS BY END-USE 2022-2032 7.1. SEGMENT DASHBOARD

7.2. Global Helium Market: End-use Revenue Trend Analysis, 2022 & 2032 (USD Million)

- 7.2.1. Aerospace & Defense
- 7.2.2. Medical & Healthcare
- 7.2.3. Electronics & Electrical
- 7.2.4. Nuclear Power
- 7.2.5. Metal Fabrication

CHAPTER 8. GLOBAL HELIUM MARKET SIZE & FORECASTS BY REGION 2022-2032 8.1. NORTH AMERICA HELIUM MARKET

- 8.1.1. U.S. Helium Market
 - 8.1.1.1. Phase Breakdown Size & Forecasts, 2022-2032
 - 8.1.1.2. Application Breakdown Size & Forecasts, 2022-2032
- 8.1.2. Canada Helium Market
- 8.2. Europe Helium Market
 - 8.2.1. UK Helium Market
 - 8.2.2. Germany Helium Market
 - 8.2.3. France Helium Market
 - 8.2.4. Spain Helium Market
 - 8.2.5. Italy Helium Market
 - 8.2.6. Rest of Europe Helium Market
- 8.3. Asia-Pacific Helium Market
 - 8.3.1. China Helium Market

- 8.3.2. India Helium Market
- 8.3.3. Japan Helium Market
- 8.3.4. Australia Helium Market
- 8.3.5. South Korea Helium Market
- 8.3.6. Rest of Asia Pacific Helium Market
- 8.4. Latin America Helium Market
 - 8.4.1. Brazil Helium Market
 - 8.4.2. Mexico Helium Market
 - 8.4.3. Rest of Latin America Helium Market
- 8.5. Middle East & Africa Helium Market
 - 8.5.1. Saudi Arabia Helium Market
 - 8.5.2. South Africa Helium Market
 - 8.5.3. Rest of Middle East & Africa Helium Market

CHAPTER 9. COMPETITIVE INTELLIGENCE 9.1. KEY COMPANY SWOT ANALYSIS

- 9.1.1. Linde plc
- 9.1.2. Air Products and Chemicals, Inc.
- 9.1.3. Praxair Technology, Inc.
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Linde plc
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. Air Products and Chemicals, Inc.
 - 9.3.3. Praxair Technology, Inc.
 - 9.3.4. Air Liquide S.A.
 - 9.3.5. Messer Group GmbH
 - 9.3.6. Gazprom PJSC
 - 9.3.7. Iwatani Corporation
 - 9.3.8. Gulf Cryo

CHAPTER 10. RESEARCH PROCESS 10.1. RESEARCH PROCESS

- 10.1.1. Data Mining
- 10.1.2. Analysis

- 10.1.3. Market Estimation
- 10.1.4. Validation
- 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Helium Market, Report Scope
- TABLE 2. Global Helium Market Estimates & Forecasts by Region 2022-2032 (USD Million)
- TABLE 3. Global Helium Market Estimates & Forecasts by Phase 2022-2032 (USD Million)
- TABLE 4. Global Helium Market Estimates & Forecasts by Application 2022-2032 (USD Million)
- TABLE 5. Global Helium Market Estimates & Forecasts by End-use 2022-2032 (USD Million)
- TABLE 6. Global Helium Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 7. Global Helium Market by Region, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 8. Global Helium Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 9. Global Helium Market by Region, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 10. Global Helium Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 11. Global Helium Market by Region, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 12. Global Helium Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 13. Global Helium Market by Region, Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 14. U.S. Helium Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 15. U.S. Helium Market Estimates & Forecasts by Segment 2022-2032 (USD Million)
- TABLE 16. Canada Helium Market Estimates & Forecasts, 2022-2032 (USD Million)
- TABLE 17. Canada Helium Market Estimates & Forecasts by Segment 2022-2032 (USD Million)
- ...

This list is not complete; the final report contains more than 100 tables. The list may be updated in the final deliverable.

I would like to order

Product name: Global Helium Market Size Study, by Phase (Liquid, Gas), by Application (Leak Detection, Welding, Breathing Mixes, Pressurizing & Purging, Controlled Atmosphere), by End-use (Aerospace & Defense, Medical & Healthcare, Electronics & Electrical, Nuclear Power, Metal Fabrication), and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/GA2B18DF4D48EN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA2B18DF4D48EN.html>