

Global Industrial Helium Purification Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Helium Purification market size was valued at USD 351.9 million in 2023 and is forecast to a readjusted size of USD 619.8 million by 2030 with a CAGR of 8.4% during review period.

Helium purification is an international frontier research field, and the methods used include low temperature condensation, membrane separation, pressure swing adsorption, chemical adsorption and other methods. The common method of helium purification cycle equipment is low temperature and condensation method. In addition, a large number of new technologies in the low-temperature field have been adopted during the equipment development process, including vibration reduction of high-pressure helium compressors, special welding technology for low-temperature and high-pressure copper pipes, and low-temperature high-pressure joint sealing technology, etc., to optimize products. On this basis, a breakthrough has been made in the purification technology of membrane separation method, and the low-purity helium with a purity of 10% is purified to more than 99.5% through a composite purification and separation method, and the system purification recovery rate is 60%.

In the global market, the core manufacturers of Industrial Helium Purification in the global market are Entegris, Taiyo Nippon Sanso, Ivys Adsorbation, Air Liquide and ect. The top six companies within this industry account for over 60% of the market share. North America, Europe, Asia Pacific, and Latin America are the major production regions for this product, with North America accounting for around 40% of the global market share. The product can be classified on the basis of production process as cryogenic distillation, pressure swing adsorption (PSA), membrane separation, and

others. Industrially purified helium is used in a wide range of applications in the medical, semiconductor, aerospace, and other fields.

The Global Info Research report includes an overview of the development of the Industrial Helium Purification industry chain, the market status of Medical (Cryogenic Distillation, Pressure Swing Adsorption (PSA)), Semiconductor (Cryogenic Distillation, Pressure Swing Adsorption (PSA)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Industrial Helium Purification.

Regionally, the report analyzes the Industrial Helium Purification markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Industrial Helium Purification market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Industrial Helium Purification market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Industrial Helium Purification industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Process (e.g., Cryogenic Distillation, Pressure Swing Adsorption (PSA)).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Industrial Helium Purification market.

Regional Analysis: The report involves examining the Industrial Helium Purification market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Industrial Helium Purification market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Industrial Helium Purification:

Company Analysis: Report covers individual Industrial Helium Purification manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Industrial Helium Purification. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Medical, Semiconductor).

Technology Analysis: Report covers specific technologies relevant to Industrial Helium Purification. It assesses the current state, advancements, and potential future developments in Industrial Helium Purification areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Industrial Helium Purification market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Industrial Helium Purification market is split by Process and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Process, and by Application in terms of volume and value.

Market segment by Process

Cryogenic Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Others

Market segment by Application

Medical

Semiconductor

Aerospace

Others

Major players covered

Entegris

Air Liquide

Air Products

Sumitomo Chemicals

Linde

Taiyo Nippon Sanso

Ivys Adsorbation

Guangzhou Guanggang Gases & Energy

Cryomech (Bluefors)

Sysadvance

Bhuruka Gases Ltd

Quantum Design

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Helium Purification product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Helium Purification, with price, sales, revenue and global market share of Industrial Helium Purification from 2019 to 2024.

Chapter 3, the Industrial Helium Purification competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Helium Purification breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Process and application, with sales market

share and growth rate by process, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Industrial Helium Purification market forecast, by regions, process and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Helium Purification.

Chapter 14 and 15, to describe Industrial Helium Purification sales channel, distributors, customers, research findings and conclusion.

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