

# Global High Purity Helium for Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global High Purity Helium for Semiconductor market size was valued at US\$ 361 million in 2024 and is forecast to a readjusted size of USD 580 million by 2031 with a CAGR of 6.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

High purity helium gas (? 99.999%) is a key process gas in the semiconductor industry, widely used in various processes such as etching, ion implantation, cleaning, carrier gas, and heat treatment. Given the extremely high requirements for gas purity, stability, and supply continuity in semiconductor manufacturing, the global supply of high-purity helium gas has formed a relatively concentrated industrial chain, mainly dominated by several international gas giants.

This report is a detailed and comprehensive analysis for global High Purity Helium for Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global High Purity Helium for Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global High Purity Helium for Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global High Purity Helium for Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global High Purity Helium for Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High Purity Helium for Semiconductor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High Purity Helium for Semiconductor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Liquid, Linde, Messer Group, Air Products, Buzwair, Gazprom, Gulf Cryo, Iceblick, RasGas, Taiyo Nippon Sanso, etc.

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

### **Market Segmentation**

High Purity Helium for Semiconductor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and

forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

5N

5.5N

Others

#### Market segment by Application

Plasma Etching

Ion Implantation

Dry Cleaning

Others

#### Major players covered

Air Liquid

Linde

Messer Group

Air Products

Buzwair

Gazprom

Gulf Cryo

Iceblick

RasGas

Taiyo Nippon Sanso

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 High Purity Helium for Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Purity Helium for Semiconductor, with price, sales quantity, revenue, and global market share of High Purity Helium for Semiconductor from 2020 to 2025.

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

Chapter 4, the High Purity Helium for Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and High Purity Helium for Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 High Purity Helium for Semiconductor.

Chapter 14 and 15, to describe High Purity Helium for Semiconductor sales channel, distributors, customers, research findings and conclusion.

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