

# Global Ultra-High-Purity Hydrogen for Semiconductors Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G9C09ECAB072EN.html>

Date: July 2024

Pages: 99

Price: US\$ 4,480.00 (Single User License)

ID: G9C09ECAB072EN

## Abstracts

The global Ultra-High-Purity Hydrogen for Semiconductors market size is expected to reach \$ 1286.6 million by 2029, rising at a market growth of 5.7% CAGR during the forecast period (2023-2029).

With the continuous advancement of technology and the increase of emerging applications, the demand for semiconductors continues to grow. The importance of ultra-high-purity hydrogen in the semiconductor industry cannot be ignored, and it is widely used in various manufacturing processes, including cleaning, deposition, epitaxial growth, etc. The development of the semiconductor industry requires high-quality and high-purity hydrogen to ensure product quality and performance, and to meet continuously increasing technical requirements.

This report studies the global Ultra-High-Purity Hydrogen for Semiconductors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-High-Purity Hydrogen for Semiconductors, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultra-High-Purity Hydrogen for Semiconductors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-High-Purity Hydrogen for Semiconductors total production and demand,

2018-2029, (Tons)

Global Ultra-High-Purity Hydrogen for Semiconductors total production value, 2018-2029, (USD Million)

Global Ultra-High-Purity Hydrogen for Semiconductors production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Ultra-High-Purity Hydrogen for Semiconductors consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Ultra-High-Purity Hydrogen for Semiconductors domestic production, consumption, key domestic manufacturers and share

Global Ultra-High-Purity Hydrogen for Semiconductors production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Ultra-High-Purity Hydrogen for Semiconductors production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Ultra-High-Purity Hydrogen for Semiconductors production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Ultra-High-Purity Hydrogen for Semiconductors 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 Group, Air Liquide, Air Products, Messer, Yingde Gases, Taiyo Nippon Sanso, Jinhong Gas and Guangdong Huate Gas Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra-High-Purity Hydrogen for Semiconductors market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Tons) and average price (K US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global Ultra-High-Purity Hydrogen for Semiconductors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Ultra-High-Purity Hydrogen for Semiconductors Market, Segmentation by Type

5N

6N

Others

#### Global Ultra-High-Purity Hydrogen for Semiconductors Market, Segmentation by Application

Semiconductor Etching

Semiconductor Doping

Semiconductor Deposition

Others

#### Companies Profiled:

Linde Group

Air Liquide

Air Products

Messer

Yingde Gases

Taiyo Nippon Sanso

Jinhong Gas

Guangdong Huate Gas Co., Ltd.

#### Key Questions Answered

1. How big is the global Ultra-High-Purity Hydrogen for Semiconductors market?
2. What is the demand of the global Ultra-High-Purity Hydrogen for Semiconductors market?
3. What is the year over year growth of the global Ultra-High-Purity Hydrogen for Semiconductors market?
4. What is the production and production value of the global Ultra-High-Purity Hydrogen for Semiconductors market?
5. Who are the key producers in the global Ultra-High-Purity Hydrogen for

Semiconductors market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Ultra-High-Purity Hydrogen for Semiconductors Introduction
- 1.2 World Ultra-High-Purity Hydrogen for Semiconductors Supply & Forecast
  - 1.2.1 World Ultra-High-Purity Hydrogen for Semiconductors Production Value (2018 & 2022 & 2029)
  - 1.2.2 World Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029)
  - 1.2.3 World Ultra-High-Purity Hydrogen for Semiconductors Pricing Trends (2018-2029)
- 1.3 World Ultra-High-Purity Hydrogen for Semiconductors Production by Region (Based on Production Site)
  - 1.3.1 World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Region (2018-2029)
  - 1.3.2 World Ultra-High-Purity Hydrogen for Semiconductors Production by Region (2018-2029)
  - 1.3.3 World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Region (2018-2029)
  - 1.3.4 North America Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029)
  - 1.3.5 Europe Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029)
  - 1.3.6 China Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029)
  - 1.3.7 Japan Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Ultra-High-Purity Hydrogen for Semiconductors Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Ultra-High-Purity Hydrogen for Semiconductors Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
  - 1.5.1 Influence of COVID-19
  - 1.5.2 Influence of Russia-Ukraine War

### 2 DEMAND SUMMARY

- 2.1 World Ultra-High-Purity Hydrogen for Semiconductors Demand (2018-2029)
- 2.2 World Ultra-High-Purity Hydrogen for Semiconductors Consumption by Region
  - 2.2.1 World Ultra-High-Purity Hydrogen for Semiconductors Consumption by Region (2018-2023)
  - 2.2.2 World Ultra-High-Purity Hydrogen for Semiconductors Consumption Forecast by

Region (2024-2029)

2.3 United States Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.4 China Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.5 Europe Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.6 Japan Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.7 South Korea Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.8 ASEAN Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

2.9 India Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029)

### **3 WORLD ULTRA-HIGH-PURITY HYDROGEN FOR SEMICONDUCTORS MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Manufacturer (2018-2023)

3.2 World Ultra-High-Purity Hydrogen for Semiconductors Production by Manufacturer (2018-2023)

3.3 World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Manufacturer (2018-2023)

3.4 Ultra-High-Purity Hydrogen for Semiconductors Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Ultra-High-Purity Hydrogen for Semiconductors Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Ultra-High-Purity Hydrogen for Semiconductors in 2022

3.5.3 Global Concentration Ratios (CR8) for Ultra-High-Purity Hydrogen for Semiconductors in 2022

3.6 Ultra-High-Purity Hydrogen for Semiconductors Market: Overall Company Footprint Analysis

3.6.1 Ultra-High-Purity Hydrogen for Semiconductors Market: Region Footprint

3.6.2 Ultra-High-Purity Hydrogen for Semiconductors Market: Company Product Type Footprint

3.6.3 Ultra-High-Purity Hydrogen for Semiconductors Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Value Comparison

4.1.1 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Comparison

4.2.1 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Consumption Comparison

4.3.1 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value (2018-2023)

4.4.3 United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023)

4.5 China Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers and Market Share

4.5.1 China Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value (2018-2023)

4.5.3 China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023)



#### 4.6 Rest of World Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023)

### **5 MARKET ANALYSIS BY TYPE**

5.1 World Ultra-High-Purity Hydrogen for Semiconductors Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 5N

5.2.2 6N

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Ultra-High-Purity Hydrogen for Semiconductors Production by Type (2018-2029)

5.3.2 World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Type (2018-2029)

5.3.3 World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Type (2018-2029)

### **6 MARKET ANALYSIS BY APPLICATION**

6.1 World Ultra-High-Purity Hydrogen for Semiconductors Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Semiconductor Etching

6.2.2 Semiconductor Doping

6.2.3 Semiconductor Deposition

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Ultra-High-Purity Hydrogen for Semiconductors Production by Application (2018-2029)

6.3.2 World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Application (2018-2029)

6.3.3 World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Application (2018-2029)

## **7 COMPANY PROFILES**

### **7.1 Linde Group**

7.1.1 Linde Group Details

7.1.2 Linde Group Major Business

7.1.3 Linde Group Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.1.4 Linde Group Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Linde Group Recent Developments/Updates

7.1.6 Linde Group Competitive Strengths & Weaknesses

### **7.2 Air Liquide**

7.2.1 Air Liquide Details

7.2.2 Air Liquide Major Business

7.2.3 Air Liquide Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.2.4 Air Liquide Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Air Liquide Recent Developments/Updates

7.2.6 Air Liquide Competitive Strengths & Weaknesses

### **7.3 Air Products**

7.3.1 Air Products Details

7.3.2 Air Products Major Business

7.3.3 Air Products Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.3.4 Air Products Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Air Products Recent Developments/Updates

7.3.6 Air Products Competitive Strengths & Weaknesses

### **7.4 Messer**

7.4.1 Messer Details

7.4.2 Messer Major Business

7.4.3 Messer Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.4.4 Messer Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Messer Recent Developments/Updates

7.4.6 Messer Competitive Strengths & Weaknesses

## 7.5 Yingde Gases

7.5.1 Yingde Gases Details

7.5.2 Yingde Gases Major Business

7.5.3 Yingde Gases Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.5.4 Yingde Gases Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Yingde Gases Recent Developments/Updates

7.5.6 Yingde Gases Competitive Strengths & Weaknesses

## 7.6 Taiyo Nippon Sanso

7.6.1 Taiyo Nippon Sanso Details

7.6.2 Taiyo Nippon Sanso Major Business

7.6.3 Taiyo Nippon Sanso Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.6.4 Taiyo Nippon Sanso Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 Taiyo Nippon Sanso Recent Developments/Updates

7.6.6 Taiyo Nippon Sanso Competitive Strengths & Weaknesses

## 7.7 Jinhong Gas

7.7.1 Jinhong Gas Details

7.7.2 Jinhong Gas Major Business

7.7.3 Jinhong Gas Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.7.4 Jinhong Gas Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 Jinhong Gas Recent Developments/Updates

7.7.6 Jinhong Gas Competitive Strengths & Weaknesses

## 7.8 Guangdong Huate Gas Co., Ltd.

7.8.1 Guangdong Huate Gas Co., Ltd. Details

7.8.2 Guangdong Huate Gas Co., Ltd. Major Business

7.8.3 Guangdong Huate Gas Co., Ltd. Ultra-High-Purity Hydrogen for Semiconductors Product and Services

7.8.4 Guangdong Huate Gas Co., Ltd. Ultra-High-Purity Hydrogen for Semiconductors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 Guangdong Huate Gas Co., Ltd. Recent Developments/Updates

7.8.6 Guangdong Huate Gas Co., Ltd. Competitive Strengths & Weaknesses

## 8 INDUSTRY CHAIN ANALYSIS

- 8.1 Ultra-High-Purity Hydrogen for Semiconductors Industry Chain
- 8.2 Ultra-High-Purity Hydrogen for Semiconductors Upstream Analysis
  - 8.2.1 Ultra-High-Purity Hydrogen for Semiconductors Core Raw Materials
  - 8.2.2 Main Manufacturers of Ultra-High-Purity Hydrogen for Semiconductors Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Ultra-High-Purity Hydrogen for Semiconductors Production Mode
- 8.6 Ultra-High-Purity Hydrogen for Semiconductors Procurement Model
- 8.7 Ultra-High-Purity Hydrogen for Semiconductors Industry Sales Model and Sales Channels
  - 8.7.1 Ultra-High-Purity Hydrogen for Semiconductors Sales Model
  - 8.7.2 Ultra-High-Purity Hydrogen for Semiconductors Typical Customers

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Region (2018-2023) & (USD Million)

Table 3. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Region (2024-2029) & (USD Million)

Table 4. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Region (2018-2023)

Table 5. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Region (2024-2029)

Table 6. World Ultra-High-Purity Hydrogen for Semiconductors Production by Region (2018-2023) & (Tons)

Table 7. World Ultra-High-Purity Hydrogen for Semiconductors Production by Region (2024-2029) & (Tons)

Table 8. World Ultra-High-Purity Hydrogen for Semiconductors Production Market Share by Region (2018-2023)

Table 9. World Ultra-High-Purity Hydrogen for Semiconductors Production Market Share by Region (2024-2029)

Table 10. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Region (2018-2023) & (K US\$/Ton)

Table 11. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Region (2024-2029) & (K US\$/Ton)

Table 12. Ultra-High-Purity Hydrogen for Semiconductors Major Market Trends

Table 13. World Ultra-High-Purity Hydrogen for Semiconductors Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World Ultra-High-Purity Hydrogen for Semiconductors Consumption by Region (2018-2023) & (Tons)

Table 15. World Ultra-High-Purity Hydrogen for Semiconductors Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Ultra-High-Purity Hydrogen for Semiconductors Producers in 2022

Table 18. World Ultra-High-Purity Hydrogen for Semiconductors Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key Ultra-High-Purity Hydrogen for Semiconductors Producers in 2022

Table 20. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Manufacturer (2018-2023) & (K US\$/Ton)

Table 21. Global Ultra-High-Purity Hydrogen for Semiconductors Company Evaluation Quadrant

Table 22. World Ultra-High-Purity Hydrogen for Semiconductors Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Ultra-High-Purity Hydrogen for Semiconductors Production Site of Key Manufacturer

Table 24. Ultra-High-Purity Hydrogen for Semiconductors Market: Company Product Type Footprint

Table 25. Ultra-High-Purity Hydrogen for Semiconductors Market: Company Product Application Footprint

Table 26. Ultra-High-Purity Hydrogen for Semiconductors Competitive Factors

Table 27. Ultra-High-Purity Hydrogen for Semiconductors New Entrant and Capacity Expansion Plans

Table 28. Ultra-High-Purity Hydrogen for Semiconductors Mergers & Acquisitions Activity

Table 29. United States VS China Ultra-High-Purity Hydrogen for Semiconductors Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Ultra-High-Purity Hydrogen for Semiconductors Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China Ultra-High-Purity Hydrogen for Semiconductors Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share (2018-2023)

Table 37. China Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023) & (Tons)

Table 41. China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share (2018-2023)

Table 42. Rest of World Based Ultra-High-Purity Hydrogen for Semiconductors Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share (2018-2023)

Table 47. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Ultra-High-Purity Hydrogen for Semiconductors Production by Type (2018-2023) & (Tons)

Table 49. World Ultra-High-Purity Hydrogen for Semiconductors Production by Type (2024-2029) & (Tons)

Table 50. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Type (2018-2023) & (USD Million)

Table 51. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Type (2024-2029) & (USD Million)

Table 52. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Type (2018-2023) & (K US\$/Ton)

Table 53. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Type (2024-2029) & (K US\$/Ton)

Table 54. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Ultra-High-Purity Hydrogen for Semiconductors Production by Application (2018-2023) & (Tons)

Table 56. World Ultra-High-Purity Hydrogen for Semiconductors Production by Application (2024-2029) & (Tons)

Table 57. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Application (2018-2023) & (USD Million)

Table 58. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by

Application (2024-2029) & (USD Million)

Table 59. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Application (2018-2023) & (K US\$/Ton)

Table 60. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Application (2024-2029) & (K US\$/Ton)

Table 61. Linde Group Basic Information, Manufacturing Base and Competitors

Table 62. Linde Group Major Business

Table 63. Linde Group Ultra-High-Purity Hydrogen for Semiconductors Product and Services

Table 64. Linde Group Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Linde Group Recent Developments/Updates

Table 66. Linde Group Competitive Strengths & Weaknesses

Table 67. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 68. Air Liquide Major Business

Table 69. Air Liquide Ultra-High-Purity Hydrogen for Semiconductors Product and Services

Table 70. Air Liquide Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Air Liquide Recent Developments/Updates

Table 72. Air Liquide Competitive Strengths & Weaknesses

Table 73. Air Products Basic Information, Manufacturing Base and Competitors

Table 74. Air Products Major Business

Table 75. Air Products Ultra-High-Purity Hydrogen for Semiconductors Product and Services

Table 76. Air Products Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Air Products Recent Developments/Updates

Table 78. Air Products Competitive Strengths & Weaknesses

Table 79. Messer Basic Information, Manufacturing Base and Competitors

Table 80. Messer Major Business

Table 81. Messer Ultra-High-Purity Hydrogen for Semiconductors Product and Services

Table 82. Messer Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Messer Recent Developments/Updates



- Table 84. Messer Competitive Strengths & Weaknesses
- Table 85. Yingde Gases Basic Information, Manufacturing Base and Competitors
- Table 86. Yingde Gases Major Business
- Table 87. Yingde Gases Ultra-High-Purity Hydrogen for Semiconductors Product and Services
- Table 88. Yingde Gases Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. Yingde Gases Recent Developments/Updates
- Table 90. Yingde Gases Competitive Strengths & Weaknesses
- Table 91. Taiyo Nippon Sanso Basic Information, Manufacturing Base and Competitors
- Table 92. Taiyo Nippon Sanso Major Business
- Table 93. Taiyo Nippon Sanso Ultra-High-Purity Hydrogen for Semiconductors Product and Services
- Table 94. Taiyo Nippon Sanso Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. Taiyo Nippon Sanso Recent Developments/Updates
- Table 96. Taiyo Nippon Sanso Competitive Strengths & Weaknesses
- Table 97. Jinhong Gas Basic Information, Manufacturing Base and Competitors
- Table 98. Jinhong Gas Major Business
- Table 99. Jinhong Gas Ultra-High-Purity Hydrogen for Semiconductors Product and Services
- Table 100. Jinhong Gas Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Jinhong Gas Recent Developments/Updates
- Table 102. Guangdong Huate Gas Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 103. Guangdong Huate Gas Co., Ltd. Major Business
- Table 104. Guangdong Huate Gas Co., Ltd. Ultra-High-Purity Hydrogen for Semiconductors Product and Services
- Table 105. Guangdong Huate Gas Co., Ltd. Ultra-High-Purity Hydrogen for Semiconductors Production (Tons), Price (K US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 106. Global Key Players of Ultra-High-Purity Hydrogen for Semiconductors Upstream (Raw Materials)
- Table 107. Ultra-High-Purity Hydrogen for Semiconductors Typical Customers
- Table 108. Ultra-High-Purity Hydrogen for Semiconductors Typical Distributors

## List of Figure

- Figure 1. Ultra-High-Purity Hydrogen for Semiconductors Picture
- Figure 2. World Ultra-High-Purity Hydrogen for Semiconductors Production Value: 2018 & 2022 & 2029, (USD Million)
- Figure 3. World Ultra-High-Purity Hydrogen for Semiconductors Production Value and Forecast (2018-2029) & (USD Million)
- Figure 4. World Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029) & (Tons)
- Figure 5. World Ultra-High-Purity Hydrogen for Semiconductors Average Price (2018-2029) & (K US\$/Ton)
- Figure 6. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Region (2018-2029)
- Figure 7. World Ultra-High-Purity Hydrogen for Semiconductors Production Market Share by Region (2018-2029)
- Figure 8. North America Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029) & (Tons)
- Figure 9. Europe Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029) & (Tons)
- Figure 10. China Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029) & (Tons)
- Figure 11. Japan Ultra-High-Purity Hydrogen for Semiconductors Production (2018-2029) & (Tons)
- Figure 12. Ultra-High-Purity Hydrogen for Semiconductors Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 15. World Ultra-High-Purity Hydrogen for Semiconductors Consumption Market Share by Region (2018-2029)
- Figure 16. United States Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 17. China Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 18. Europe Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 19. Japan Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 20. South Korea Ultra-High-Purity Hydrogen for Semiconductors Consumption (2018-2029) & (Tons)
- Figure 21. ASEAN Ultra-High-Purity Hydrogen for Semiconductors Consumption

(2018-2029) & (Tons)

Figure 22. India Ultra-High-Purity Hydrogen for Semiconductors Consumption

(2018-2029) & (Tons)

Figure 23. Producer Shipments of Ultra-High-Purity Hydrogen for Semiconductors by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Ultra-High-Purity Hydrogen for Semiconductors Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Ultra-High-Purity Hydrogen for Semiconductors Markets in 2022

Figure 26. United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Ultra-High-Purity Hydrogen for Semiconductors Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share 2022

Figure 30. China Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Ultra-High-Purity Hydrogen for Semiconductors Production Market Share 2022

Figure 32. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Type in 2022

Figure 34. 5N

Figure 35. 6N

Figure 36. Others

Figure 37. World Ultra-High-Purity Hydrogen for Semiconductors Production Market Share by Type (2018-2029)

Figure 38. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Type (2018-2029)

Figure 39. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Type (2018-2029) & (K US\$/Ton)

Figure 40. World Ultra-High-Purity Hydrogen for Semiconductors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Application in 2022

Figure 42. Semiconductor Etching

Figure 43. Semiconductor Doping

Figure 44. Semiconductor Deposition

Figure 45. Others

Figure 46. World Ultra-High-Purity Hydrogen for Semiconductors Production Market Share by Application (2018-2029)

Figure 47. World Ultra-High-Purity Hydrogen for Semiconductors Production Value Market Share by Application (2018-2029)

Figure 48. World Ultra-High-Purity Hydrogen for Semiconductors Average Price by Application (2018-2029) & (K US\$/Ton)

Figure 49. Ultra-High-Purity Hydrogen for Semiconductors Industry Chain

Figure 50. Ultra-High-Purity Hydrogen for Semiconductors Procurement Model

Figure 51. Ultra-High-Purity Hydrogen for Semiconductors Sales Model

Figure 52. Ultra-High-Purity Hydrogen for Semiconductors Sales Channels, Direct Sales, and Distribution

Figure 53. Methodology

Figure 54. Research Process and Data Source

## I would like to order

Product name: Global Ultra-High-Purity Hydrogen for Semiconductors Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/G9C09ECAB072EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G9C09ECAB072EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

