

Global Etching Gas Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Etching Gas market size is expected to reach \$ 1405.1 million by 2029, rising at a market growth of 8.2% CAGR during the forecast period (2023-2029).

The key manufacturers of Etching Gas include Linde, SK Materials, Kanto Denka Kogyo, PERIC Special Gases, Merck (Versum Materials), Showa Denko, etc. Linde is the world's largest player, with about 14% of the market.

Asia Pacific is the largest market, accounting for 74% of the global market. The Asia-Pacific region will maintain its position in the future.

In terms of product, it is divided into Fluorine Containing Gas, Chlorine Containing Gas, Oxygen Containing Gas and others. Fluorine Containing Gas is the major product, accounting for about 55%.

Etching Gas are mainly used in industrial products such as integrated circuits, display panels, solar, LED, and so on. It is most widely used by the integrated circuits industry, which accounts for about 70% of the downstream market.

The etching process requires a chemical reaction between the electron gas and the etched material. The etching process requires a large amount of fluorocarbon gases, such as hexafluoroethane, carbon tetrafluoride, trifluoromethane, octafluorocyclobutane, octafluorobutane, etc. The etched gas undergoes a chemical reaction with the etched material, resulting in the elimination of the etched material. In the etching process of wafer manufacturing, especially in the dry etching process, in order to achieve directional etching, it is necessary to use electronic special gases to form plasma under ionization conditions. The plasma undergoes chemical or physical reactions with the

etched material to remove a portion of the etched material. Different electron gases are also used for reactions in different etching targets.

The commonly used etching gases include fluorinated and chlorinated gases, as well as oxygen-containing gases and some rare gases.

This report studies the global Etching Gas production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Etching Gas, 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 Etching Gas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Etching Gas total production and demand, 2018-2029, (MT)

Global Etching Gas total production value, 2018-2029, (USD Million)

Global Etching Gas production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Etching Gas consumption by region & country, CAGR, 2018-2029 & (MT)

U.S. VS China: Etching Gas domestic production, consumption, key domestic manufacturers and share

Global Etching Gas production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (MT)

Global Etching Gas production by Type, production, value, CAGR, 2018-2029, (USD Million) & (MT)

Global Etching Gas production by Application production, value, CAGR, 2018-2029, (USD Million) & (MT)

This reports profiles key players in the global Etching Gas 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, SK Materials, Kanto Denka Kogyo, PERIC Special Gases, Merck (Versum Materials), Showa Denko, Nippon Sanso, Air Liquide and Haohua Chemical, 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 Etching Gas market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (US\$/Kg) 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 Etching Gas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Etching Gas Market, Segmentation by Type

Fluorine Containing Gas

Chlorine Containing Gas

Oxygen Containing Gas

Others

Global Etching Gas Market, Segmentation by Application

Integrated Circuits

Display Panels

Solar

LED

Companies Profiled:

Linde

SK Materials

Kanto Denka Kogyo

PERIC Special Gases

Merck (Versum Materials)

Showa Denko

Nippon Sanso

Air Liquide

Haohua Chemical

Zibo Feiyuan Chemical

Kemeite (Yoke Technology)

Solvay

Huate Gas

Yongjing Technology

Air Products

Jinhong Gas

Concorde Specialty Gases

Linggas

Key Questions Answered

1. How big is the global Etching Gas market?
2. What is the demand of the global Etching Gas market?
3. What is the year over year growth of the global Etching Gas market?
4. What is the production and production value of the global Etching Gas market?
5. Who are the key producers in the global Etching Gas market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Etching Gas Introduction
- 1.2 World Etching Gas Supply & Forecast
 - 1.2.1 World Etching Gas Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Etching Gas Production (2018-2029)
 - 1.2.3 World Etching Gas Pricing Trends (2018-2029)
- 1.3 World Etching Gas Production by Region (Based on Production Site)
 - 1.3.1 World Etching Gas Production Value by Region (2018-2029)
 - 1.3.2 World Etching Gas Production by Region (2018-2029)
 - 1.3.3 World Etching Gas Average Price by Region (2018-2029)
 - 1.3.4 North America Etching Gas Production (2018-2029)
 - 1.3.5 Europe Etching Gas Production (2018-2029)
 - 1.3.6 China Etching Gas Production (2018-2029)
 - 1.3.7 Japan Etching Gas Production (2018-2029)
 - 1.3.8 South Korea Etching Gas Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Etching Gas Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Etching Gas 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 Etching Gas Demand (2018-2029)
- 2.2 World Etching Gas Consumption by Region
 - 2.2.1 World Etching Gas Consumption by Region (2018-2023)
 - 2.2.2 World Etching Gas Consumption Forecast by Region (2024-2029)
- 2.3 United States Etching Gas Consumption (2018-2029)
- 2.4 China Etching Gas Consumption (2018-2029)
- 2.5 Europe Etching Gas Consumption (2018-2029)
- 2.6 Japan Etching Gas Consumption (2018-2029)
- 2.7 South Korea Etching Gas Consumption (2018-2029)
- 2.8 ASEAN Etching Gas Consumption (2018-2029)
- 2.9 India Etching Gas Consumption (2018-2029)

3 WORLD ETCHING GAS MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Etching Gas Production Value by Manufacturer (2018-2023)

3.2 World Etching Gas Production by Manufacturer (2018-2023)

3.3 World Etching Gas Average Price by Manufacturer (2018-2023)

3.4 Etching Gas Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Etching Gas Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Etching Gas in 2022

3.5.3 Global Concentration Ratios (CR8) for Etching Gas in 2022

3.6 Etching Gas Market: Overall Company Footprint Analysis

3.6.1 Etching Gas Market: Region Footprint

3.6.2 Etching Gas Market: Company Product Type Footprint

3.6.3 Etching Gas 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: Etching Gas Production Value Comparison

4.1.1 United States VS China: Etching Gas Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Etching Gas Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Etching Gas Production Comparison

4.2.1 United States VS China: Etching Gas Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Etching Gas Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Etching Gas Consumption Comparison

4.3.1 United States VS China: Etching Gas Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Etching Gas Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Etching Gas Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Etching Gas Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Etching Gas Production Value (2018-2023)

4.4.3 United States Based Manufacturers Etching Gas Production (2018-2023)

4.5 China Based Etching Gas Manufacturers and Market Share

4.5.1 China Based Etching Gas Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Etching Gas Production Value (2018-2023)

4.5.3 China Based Manufacturers Etching Gas Production (2018-2023)

4.6 Rest of World Based Etching Gas Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Etching Gas Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Etching Gas Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Etching Gas Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Etching Gas Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Fluorine Containing Gas

5.2.2 Chlorine Containing Gas

5.2.3 Oxygen Containing Gas

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Etching Gas Production by Type (2018-2029)

5.3.2 World Etching Gas Production Value by Type (2018-2029)

5.3.3 World Etching Gas Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Etching Gas Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Integrated Circuits

6.2.2 Display Panels

6.2.3 Solar

6.2.4 LED

6.3 Market Segment by Application

6.3.1 World Etching Gas Production by Application (2018-2029)

6.3.2 World Etching Gas Production Value by Application (2018-2029)

6.3.3 World Etching Gas Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Linde

7.1.1 Linde Details

7.1.2 Linde Major Business

7.1.3 Linde Etching Gas Product and Services

7.1.4 Linde Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Linde Recent Developments/Updates

7.1.6 Linde Competitive Strengths & Weaknesses

7.2 SK Materials

7.2.1 SK Materials Details

7.2.2 SK Materials Major Business

7.2.3 SK Materials Etching Gas Product and Services

7.2.4 SK Materials Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 SK Materials Recent Developments/Updates

7.2.6 SK Materials Competitive Strengths & Weaknesses

7.3 Kanto Denka Kogyo

7.3.1 Kanto Denka Kogyo Details

7.3.2 Kanto Denka Kogyo Major Business

7.3.3 Kanto Denka Kogyo Etching Gas Product and Services

7.3.4 Kanto Denka Kogyo Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Kanto Denka Kogyo Recent Developments/Updates

7.3.6 Kanto Denka Kogyo Competitive Strengths & Weaknesses

7.4 PERIC Special Gases

7.4.1 PERIC Special Gases Details

7.4.2 PERIC Special Gases Major Business

7.4.3 PERIC Special Gases Etching Gas Product and Services

7.4.4 PERIC Special Gases Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 PERIC Special Gases Recent Developments/Updates

7.4.6 PERIC Special Gases Competitive Strengths & Weaknesses

7.5 Merck (Versum Materials)

7.5.1 Merck (Versum Materials) Details

- 7.5.2 Merck (Versum Materials) Major Business
- 7.5.3 Merck (Versum Materials) Etching Gas Product and Services
- 7.5.4 Merck (Versum Materials) Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.5.5 Merck (Versum Materials) Recent Developments/Updates
- 7.5.6 Merck (Versum Materials) Competitive Strengths & Weaknesses
- 7.6 Showa Denko
 - 7.6.1 Showa Denko Details
 - 7.6.2 Showa Denko Major Business
 - 7.6.3 Showa Denko Etching Gas Product and Services
 - 7.6.4 Showa Denko Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Showa Denko Recent Developments/Updates
 - 7.6.6 Showa Denko Competitive Strengths & Weaknesses
- 7.7 Nippon Sanso
 - 7.7.1 Nippon Sanso Details
 - 7.7.2 Nippon Sanso Major Business
 - 7.7.3 Nippon Sanso Etching Gas Product and Services
 - 7.7.4 Nippon Sanso Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Nippon Sanso Recent Developments/Updates
 - 7.7.6 Nippon Sanso Competitive Strengths & Weaknesses
- 7.8 Air Liquide
 - 7.8.1 Air Liquide Details
 - 7.8.2 Air Liquide Major Business
 - 7.8.3 Air Liquide Etching Gas Product and Services
 - 7.8.4 Air Liquide Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.8.5 Air Liquide Recent Developments/Updates
 - 7.8.6 Air Liquide Competitive Strengths & Weaknesses
- 7.9 Haohua Chemical
 - 7.9.1 Haohua Chemical Details
 - 7.9.2 Haohua Chemical Major Business
 - 7.9.3 Haohua Chemical Etching Gas Product and Services
 - 7.9.4 Haohua Chemical Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.9.5 Haohua Chemical Recent Developments/Updates
 - 7.9.6 Haohua Chemical Competitive Strengths & Weaknesses
- 7.10 Zibo Feiyuan Chemical

- 7.10.1 Zibo Feiyuan Chemical Details
- 7.10.2 Zibo Feiyuan Chemical Major Business
- 7.10.3 Zibo Feiyuan Chemical Etching Gas Product and Services
- 7.10.4 Zibo Feiyuan Chemical Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.10.5 Zibo Feiyuan Chemical Recent Developments/Updates
- 7.10.6 Zibo Feiyuan Chemical Competitive Strengths & Weaknesses
- 7.11 Kemeite (Yoke Technology)
 - 7.11.1 Kemeite (Yoke Technology) Details
 - 7.11.2 Kemeite (Yoke Technology) Major Business
 - 7.11.3 Kemeite (Yoke Technology) Etching Gas Product and Services
 - 7.11.4 Kemeite (Yoke Technology) Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Kemeite (Yoke Technology) Recent Developments/Updates
 - 7.11.6 Kemeite (Yoke Technology) Competitive Strengths & Weaknesses
- 7.12 Solvay
 - 7.12.1 Solvay Details
 - 7.12.2 Solvay Major Business
 - 7.12.3 Solvay Etching Gas Product and Services
 - 7.12.4 Solvay Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 Solvay Recent Developments/Updates
 - 7.12.6 Solvay Competitive Strengths & Weaknesses
- 7.13 Huate Gas
 - 7.13.1 Huate Gas Details
 - 7.13.2 Huate Gas Major Business
 - 7.13.3 Huate Gas Etching Gas Product and Services
 - 7.13.4 Huate Gas Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.13.5 Huate Gas Recent Developments/Updates
 - 7.13.6 Huate Gas Competitive Strengths & Weaknesses
- 7.14 Yongjing Technology
 - 7.14.1 Yongjing Technology Details
 - 7.14.2 Yongjing Technology Major Business
 - 7.14.3 Yongjing Technology Etching Gas Product and Services
 - 7.14.4 Yongjing Technology Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.14.5 Yongjing Technology Recent Developments/Updates
 - 7.14.6 Yongjing Technology Competitive Strengths & Weaknesses

7.15 Air Products

7.15.1 Air Products Details

7.15.2 Air Products Major Business

7.15.3 Air Products Etching Gas Product and Services

7.15.4 Air Products Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Air Products Recent Developments/Updates

7.15.6 Air Products Competitive Strengths & Weaknesses

7.16 Jinhong Gas

7.16.1 Jinhong Gas Details

7.16.2 Jinhong Gas Major Business

7.16.3 Jinhong Gas Etching Gas Product and Services

7.16.4 Jinhong Gas Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.16.5 Jinhong Gas Recent Developments/Updates

7.16.6 Jinhong Gas Competitive Strengths & Weaknesses

7.17 Concorde Specialty Gases

7.17.1 Concorde Specialty Gases Details

7.17.2 Concorde Specialty Gases Major Business

7.17.3 Concorde Specialty Gases Etching Gas Product and Services

7.17.4 Concorde Specialty Gases Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.17.5 Concorde Specialty Gases Recent Developments/Updates

7.17.6 Concorde Specialty Gases Competitive Strengths & Weaknesses

7.18 Linggas

7.18.1 Linggas Details

7.18.2 Linggas Major Business

7.18.3 Linggas Etching Gas Product and Services

7.18.4 Linggas Etching Gas Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.18.5 Linggas Recent Developments/Updates

7.18.6 Linggas Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Etching Gas Industry Chain

8.2 Etching Gas Upstream Analysis

8.2.1 Etching Gas Core Raw Materials

8.2.2 Main Manufacturers of Etching Gas Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Etching Gas Production Mode

8.6 Etching Gas Procurement Model

8.7 Etching Gas Industry Sales Model and Sales Channels

8.7.1 Etching Gas Sales Model

8.7.2 Etching Gas 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 Etching Gas Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Etching Gas Production Value by Region (2018-2023) & (USD Million)

Table 3. World Etching Gas Production Value by Region (2024-2029) & (USD Million)

Table 4. World Etching Gas Production Value Market Share by Region (2018-2023)

Table 5. World Etching Gas Production Value Market Share by Region (2024-2029)

Table 6. World Etching Gas Production by Region (2018-2023) & (MT)

Table 7. World Etching Gas Production by Region (2024-2029) & (MT)

Table 8. World Etching Gas Production Market Share by Region (2018-2023)

Table 9. World Etching Gas Production Market Share by Region (2024-2029)

Table 10. World Etching Gas Average Price by Region (2018-2023) & (US\$/Kg)

Table 11. World Etching Gas Average Price by Region (2024-2029) & (US\$/Kg)

Table 12. Etching Gas Major Market Trends

Table 13. World Etching Gas Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (MT)

Table 14. World Etching Gas Consumption by Region (2018-2023) & (MT)

Table 15. World Etching Gas Consumption Forecast by Region (2024-2029) & (MT)

Table 16. World Etching Gas Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Etching Gas Producers in 2022

Table 18. World Etching Gas Production by Manufacturer (2018-2023) & (MT)

Table 19. Production Market Share of Key Etching Gas Producers in 2022

Table 20. World Etching Gas Average Price by Manufacturer (2018-2023) & (US\$/Kg)

Table 21. Global Etching Gas Company Evaluation Quadrant

Table 22. World Etching Gas Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Etching Gas Production Site of Key Manufacturer

Table 24. Etching Gas Market: Company Product Type Footprint

Table 25. Etching Gas Market: Company Product Application Footprint

Table 26. Etching Gas Competitive Factors

Table 27. Etching Gas New Entrant and Capacity Expansion Plans

Table 28. Etching Gas Mergers & Acquisitions Activity

Table 29. United States VS China Etching Gas Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Etching Gas Production Comparison, (2018 & 2022 &

2029) & (MT)

Table 31. United States VS China Etching Gas Consumption Comparison, (2018 & 2022 & 2029) & (MT)

Table 32. United States Based Etching Gas Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Etching Gas Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Etching Gas Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Etching Gas Production (2018-2023) & (MT)

Table 36. United States Based Manufacturers Etching Gas Production Market Share (2018-2023)

Table 37. China Based Etching Gas Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Etching Gas Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Etching Gas Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Etching Gas Production (2018-2023) & (MT)

Table 41. China Based Manufacturers Etching Gas Production Market Share (2018-2023)

Table 42. Rest of World Based Etching Gas Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Etching Gas Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Etching Gas Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Etching Gas Production (2018-2023) & (MT)

Table 46. Rest of World Based Manufacturers Etching Gas Production Market Share (2018-2023)

Table 47. World Etching Gas Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Etching Gas Production by Type (2018-2023) & (MT)

Table 49. World Etching Gas Production by Type (2024-2029) & (MT)

Table 50. World Etching Gas Production Value by Type (2018-2023) & (USD Million)

Table 51. World Etching Gas Production Value by Type (2024-2029) & (USD Million)

Table 52. World Etching Gas Average Price by Type (2018-2023) & (US\$/Kg)

- Table 53. World Etching Gas Average Price by Type (2024-2029) & (US\$/Kg)
- Table 54. World Etching Gas Production Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 55. World Etching Gas Production by Application (2018-2023) & (MT)
- Table 56. World Etching Gas Production by Application (2024-2029) & (MT)
- Table 57. World Etching Gas Production Value by Application (2018-2023) & (USD Million)
- Table 58. World Etching Gas Production Value by Application (2024-2029) & (USD Million)
- Table 59. World Etching Gas Average Price by Application (2018-2023) & (US\$/Kg)
- Table 60. World Etching Gas Average Price by Application (2024-2029) & (US\$/Kg)
- Table 61. Linde Basic Information, Manufacturing Base and Competitors
- Table 62. Linde Major Business
- Table 63. Linde Etching Gas Product and Services
- Table 64. Linde Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 65. Linde Recent Developments/Updates
- Table 66. Linde Competitive Strengths & Weaknesses
- Table 67. SK Materials Basic Information, Manufacturing Base and Competitors
- Table 68. SK Materials Major Business
- Table 69. SK Materials Etching Gas Product and Services
- Table 70. SK Materials Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 71. SK Materials Recent Developments/Updates
- Table 72. SK Materials Competitive Strengths & Weaknesses
- Table 73. Kanto Denka Kogyo Basic Information, Manufacturing Base and Competitors
- Table 74. Kanto Denka Kogyo Major Business
- Table 75. Kanto Denka Kogyo Etching Gas Product and Services
- Table 76. Kanto Denka Kogyo Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 77. Kanto Denka Kogyo Recent Developments/Updates
- Table 78. Kanto Denka Kogyo Competitive Strengths & Weaknesses
- Table 79. PERIC Special Gases Basic Information, Manufacturing Base and Competitors
- Table 80. PERIC Special Gases Major Business
- Table 81. PERIC Special Gases Etching Gas Product and Services
- Table 82. PERIC Special Gases Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 83. PERIC Special Gases Recent Developments/Updates

- Table 84. PERIC Special Gases Competitive Strengths & Weaknesses
- Table 85. Merck (Versum Materials) Basic Information, Manufacturing Base and Competitors
- Table 86. Merck (Versum Materials) Major Business
- Table 87. Merck (Versum Materials) Etching Gas Product and Services
- Table 88. Merck (Versum Materials) Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 89. Merck (Versum Materials) Recent Developments/Updates
- Table 90. Merck (Versum Materials) Competitive Strengths & Weaknesses
- Table 91. Showa Denko Basic Information, Manufacturing Base and Competitors
- Table 92. Showa Denko Major Business
- Table 93. Showa Denko Etching Gas Product and Services
- Table 94. Showa Denko Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. Showa Denko Recent Developments/Updates
- Table 96. Showa Denko Competitive Strengths & Weaknesses
- Table 97. Nippon Sanso Basic Information, Manufacturing Base and Competitors
- Table 98. Nippon Sanso Major Business
- Table 99. Nippon Sanso Etching Gas Product and Services
- Table 100. Nippon Sanso Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Nippon Sanso Recent Developments/Updates
- Table 102. Nippon Sanso Competitive Strengths & Weaknesses
- Table 103. Air Liquide Basic Information, Manufacturing Base and Competitors
- Table 104. Air Liquide Major Business
- Table 105. Air Liquide Etching Gas Product and Services
- Table 106. Air Liquide Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Air Liquide Recent Developments/Updates
- Table 108. Air Liquide Competitive Strengths & Weaknesses
- Table 109. Haohua Chemical Basic Information, Manufacturing Base and Competitors
- Table 110. Haohua Chemical Major Business
- Table 111. Haohua Chemical Etching Gas Product and Services
- Table 112. Haohua Chemical Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. Haohua Chemical Recent Developments/Updates
- Table 114. Haohua Chemical Competitive Strengths & Weaknesses
- Table 115. Zibo Feiyuan Chemical Basic Information, Manufacturing Base and Competitors

- Table 116. Zibo Feiyuan Chemical Major Business
- Table 117. Zibo Feiyuan Chemical Etching Gas Product and Services
- Table 118. Zibo Feiyuan Chemical Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Zibo Feiyuan Chemical Recent Developments/Updates
- Table 120. Zibo Feiyuan Chemical Competitive Strengths & Weaknesses
- Table 121. Kemeite (Yoke Technology) Basic Information, Manufacturing Base and Competitors
- Table 122. Kemeite (Yoke Technology) Major Business
- Table 123. Kemeite (Yoke Technology) Etching Gas Product and Services
- Table 124. Kemeite (Yoke Technology) Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 125. Kemeite (Yoke Technology) Recent Developments/Updates
- Table 126. Kemeite (Yoke Technology) Competitive Strengths & Weaknesses
- Table 127. Solvay Basic Information, Manufacturing Base and Competitors
- Table 128. Solvay Major Business
- Table 129. Solvay Etching Gas Product and Services
- Table 130. Solvay Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 131. Solvay Recent Developments/Updates
- Table 132. Solvay Competitive Strengths & Weaknesses
- Table 133. Huate Gas Basic Information, Manufacturing Base and Competitors
- Table 134. Huate Gas Major Business
- Table 135. Huate Gas Etching Gas Product and Services
- Table 136. Huate Gas Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 137. Huate Gas Recent Developments/Updates
- Table 138. Huate Gas Competitive Strengths & Weaknesses
- Table 139. Yongjing Technology Basic Information, Manufacturing Base and Competitors
- Table 140. Yongjing Technology Major Business
- Table 141. Yongjing Technology Etching Gas Product and Services
- Table 142. Yongjing Technology Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 143. Yongjing Technology Recent Developments/Updates
- Table 144. Yongjing Technology Competitive Strengths & Weaknesses
- Table 145. Air Products Basic Information, Manufacturing Base and Competitors
- Table 146. Air Products Major Business
- Table 147. Air Products Etching Gas Product and Services

Table 148. Air Products Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. Air Products Recent Developments/Updates

Table 150. Air Products Competitive Strengths & Weaknesses

Table 151. Jinhong Gas Basic Information, Manufacturing Base and Competitors

Table 152. Jinhong Gas Major Business

Table 153. Jinhong Gas Etching Gas Product and Services

Table 154. Jinhong Gas Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 155. Jinhong Gas Recent Developments/Updates

Table 156. Jinhong Gas Competitive Strengths & Weaknesses

Table 157. Concorde Specialty Gases Basic Information, Manufacturing Base and Competitors

Table 158. Concorde Specialty Gases Major Business

Table 159. Concorde Specialty Gases Etching Gas Product and Services

Table 160. Concorde Specialty Gases Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 161. Concorde Specialty Gases Recent Developments/Updates

Table 162. Linggas Basic Information, Manufacturing Base and Competitors

Table 163. Linggas Major Business

Table 164. Linggas Etching Gas Product and Services

Table 165. Linggas Etching Gas Production (MT), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 166. Global Key Players of Etching Gas Upstream (Raw Materials)

Table 167. Etching Gas Typical Customers

Table 168. Etching Gas Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Etching Gas Picture

Figure 2. World Etching Gas Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Etching Gas Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Etching Gas Production (2018-2029) & (MT)

Figure 5. World Etching Gas Average Price (2018-2029) & (US\$/Kg)

Figure 6. World Etching Gas Production Value Market Share by Region (2018-2029)

Figure 7. World Etching Gas Production Market Share by Region (2018-2029)

Figure 8. North America Etching Gas Production (2018-2029) & (MT)

Figure 9. Europe Etching Gas Production (2018-2029) & (MT)

Figure 10. China Etching Gas Production (2018-2029) & (MT)

Figure 11. Japan Etching Gas Production (2018-2029) & (MT)

Figure 12. South Korea Etching Gas Production (2018-2029) & (MT)

Figure 13. Etching Gas Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Etching Gas Consumption (2018-2029) & (MT)

Figure 16. World Etching Gas Consumption Market Share by Region (2018-2029)

Figure 17. United States Etching Gas Consumption (2018-2029) & (MT)

Figure 18. China Etching Gas Consumption (2018-2029) & (MT)

Figure 19. Europe Etching Gas Consumption (2018-2029) & (MT)

Figure 20. Japan Etching Gas Consumption (2018-2029) & (MT)

Figure 21. South Korea Etching Gas Consumption (2018-2029) & (MT)

Figure 22. ASEAN Etching Gas Consumption (2018-2029) & (MT)

Figure 23. India Etching Gas Consumption (2018-2029) & (MT)

Figure 24. Producer Shipments of Etching Gas by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 25. Global Four-firm Concentration Ratios (CR4) for Etching Gas Markets in 2022

Figure 26. Global Four-firm Concentration Ratios (CR8) for Etching Gas Markets in 2022

Figure 27. United States VS China: Etching Gas Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Etching Gas Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Etching Gas Consumption Market Share

Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Etching Gas Production Market Share 2022

Figure 31. China Based Manufacturers Etching Gas Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Etching Gas Production Market Share 2022

Figure 33. World Etching Gas Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Etching Gas Production Value Market Share by Type in 2022

Figure 35. Fluorine Containing Gas

Figure 36. Chlorine Containing Gas

Figure 37. Oxygen Containing Gas

Figure 38. Others

Figure 39. World Etching Gas Production Market Share by Type (2018-2029)

Figure 40. World Etching Gas Production Value Market Share by Type (2018-2029)

Figure 41. World Etching Gas Average Price by Type (2018-2029) & (US\$/Kg)

Figure 42. World Etching Gas Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 43. World Etching Gas Production Value Market Share by Application in 2022

Figure 44. Integrated Circuits

Figure 45. Display Panels

Figure 46. Solar

Figure 47. LED

Figure 48. World Etching Gas Production Market Share by Application (2018-2029)

Figure 49. World Etching Gas Production Value Market Share by Application (2018-2029)

Figure 50. World Etching Gas Average Price by Application (2018-2029) & (US\$/Kg)

Figure 51. Etching Gas Industry Chain

Figure 52. Etching Gas Procurement Model

Figure 53. Etching Gas Sales Model

Figure 54. Etching Gas Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

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