

Global Semiconductor Dry Etchant Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/GD8EA4BBF1A7EN.html>

Date: June 2023

Pages: 83

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

ID: GD8EA4BBF1A7EN

Abstracts

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

The fundamental type of etchants is plasma-phase ('dry'). Modern VLSI processes avoid wet etching, and use plasma etching instead. Plasma etchers can operate in several modes by adjusting the parameters of the plasma. Ordinary plasma etching operates between 0.1 and 5 Torr. (This unit of pressure, commonly used in vacuum engineering, equals approximately 133.3 pascals.) The plasma produces energetic free radicals, neutrally charged, that react at the surface of the wafer. Since neutral particles attack the wafer from all angles, this process is isotropic. Plasma etching can be isotropic, i.e., exhibiting a lateral undercut rate on a patterned surface approximately the same as its downward etch rate, or can be anisotropic, i.e., exhibiting a smaller lateral undercut rate than its downward etch rate. Such anisotropy is maximized in deep reactive ion etching. The use of the term anisotropy for plasma etching should not be conflated with the use of the same term when referring to orientation-dependent etching. The source gas for the plasma usually contains small molecules rich in chlorine or fluorine. For instance, carbon tetrachloride (CCl₄) etches silicon and aluminium, and trifluoromethane etches silicon dioxide and silicon nitride. A plasma containing oxygen is used to oxidize ('ash') photoresist and facilitate its removal.

This report studies the global Semiconductor Dry Etchant production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Dry Etchant total production and demand, 2018-2029, (Tons)

Global Semiconductor Dry Etchant total production value, 2018-2029, (USD Million)

Global Semiconductor Dry Etchant production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Semiconductor Dry Etchant consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Semiconductor Dry Etchant domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Dry Etchant production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Semiconductor Dry Etchant production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Semiconductor Dry Etchant production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Semiconductor Dry Etchant 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 Solvay, Entegris, CAPCHEM and Daikin, 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 Semiconductor Dry Etchant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (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 Semiconductor Dry Etchant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Dry Etchant Market, Segmentation by Type

SF6 Gas

HCl Gas

Cl2 Gas

Others

Global Semiconductor Dry Etchant Market, Segmentation by Application

Silicon Wafer

Metallic Film

SiN

Aluminum Oxide

Photoresist

Others

Companies Profiled:

Solvay

Entegris

CAPCHEM

Daikin

Key Questions Answered

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

Contents

1 SUPPLY SUMMARY

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

3 WORLD SEMICONDUCTOR DRY ETCHANT MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Semiconductor Dry Etchant Production Value by Manufacturer (2018-2023)
- 3.2 World Semiconductor Dry Etchant Production by Manufacturer (2018-2023)
- 3.3 World Semiconductor Dry Etchant Average Price by Manufacturer (2018-2023)
- 3.4 Semiconductor Dry Etchant Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Semiconductor Dry Etchant Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Semiconductor Dry Etchant in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Semiconductor Dry Etchant in 2022
- 3.6 Semiconductor Dry Etchant Market: Overall Company Footprint Analysis
 - 3.6.1 Semiconductor Dry Etchant Market: Region Footprint
 - 3.6.2 Semiconductor Dry Etchant Market: Company Product Type Footprint
 - 3.6.3 Semiconductor Dry Etchant 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: Semiconductor Dry Etchant Production Value Comparison
 - 4.1.1 United States VS China: Semiconductor Dry Etchant Production Value Comparison (2018 & 2022 & 2029)
 - 4.1.2 United States VS China: Semiconductor Dry Etchant Production Value Market Share Comparison (2018 & 2022 & 2029)
- 4.2 United States VS China: Semiconductor Dry Etchant Production Comparison
 - 4.2.1 United States VS China: Semiconductor Dry Etchant Production Comparison (2018 & 2022 & 2029)
 - 4.2.2 United States VS China: Semiconductor Dry Etchant Production Market Share Comparison (2018 & 2022 & 2029)
- 4.3 United States VS China: Semiconductor Dry Etchant Consumption Comparison
 - 4.3.1 United States VS China: Semiconductor Dry Etchant Consumption Comparison (2018 & 2022 & 2029)
 - 4.3.2 United States VS China: Semiconductor Dry Etchant Consumption Market Share

Comparison (2018 & 2022 & 2029)

4.4 United States Based Semiconductor Dry Etchant Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Semiconductor Dry Etchant Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor Dry Etchant Production Value (2018-2023)

4.4.3 United States Based Manufacturers Semiconductor Dry Etchant Production (2018-2023)

4.5 China Based Semiconductor Dry Etchant Manufacturers and Market Share

4.5.1 China Based Semiconductor Dry Etchant Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor Dry Etchant Production Value (2018-2023)

4.5.3 China Based Manufacturers Semiconductor Dry Etchant Production (2018-2023)

4.6 Rest of World Based Semiconductor Dry Etchant Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Semiconductor Dry Etchant Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semiconductor Dry Etchant Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Semiconductor Dry Etchant Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Semiconductor Dry Etchant Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 SF6 Gas

5.2.2 HCl Gas

5.2.3 Cl2 Gas

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Semiconductor Dry Etchant Production by Type (2018-2029)

5.3.2 World Semiconductor Dry Etchant Production Value by Type (2018-2029)

5.3.3 World Semiconductor Dry Etchant Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Semiconductor Dry Etchant Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Silicon Wafer

6.2.2 Metallic Film

6.2.3 SiN

6.2.4 Aluminum Oxide

6.2.5 Photoresist

6.2.6 Others

6.3 Market Segment by Application

6.3.1 World Semiconductor Dry Etchant Production by Application (2018-2029)

6.3.2 World Semiconductor Dry Etchant Production Value by Application (2018-2029)

6.3.3 World Semiconductor Dry Etchant Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Solvay

7.1.1 Solvay Details

7.1.2 Solvay Major Business

7.1.3 Solvay Semiconductor Dry Etchant Product and Services

7.1.4 Solvay Semiconductor Dry Etchant Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Solvay Recent Developments/Updates

7.1.6 Solvay Competitive Strengths & Weaknesses

7.2 Entegris

7.2.1 Entegris Details

7.2.2 Entegris Major Business

7.2.3 Entegris Semiconductor Dry Etchant Product and Services

7.2.4 Entegris Semiconductor Dry Etchant Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Entegris Recent Developments/Updates

7.2.6 Entegris Competitive Strengths & Weaknesses

7.3 CAPCHEM

7.3.1 CAPCHEM Details

7.3.2 CAPCHEM Major Business

7.3.3 CAPCHEM Semiconductor Dry Etchant Product and Services

7.3.4 CAPCHEM Semiconductor Dry Etchant Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 CAPCHEM Recent Developments/Updates

7.3.6 CAPCHEM Competitive Strengths & Weaknesses

7.4 Daikin

7.4.1 Daikin Details

7.4.2 Daikin Major Business

7.4.3 Daikin Semiconductor Dry Etchant Product and Services

7.4.4 Daikin Semiconductor Dry Etchant Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Daikin Recent Developments/Updates

7.4.6 Daikin Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Semiconductor Dry Etchant Industry Chain

8.2 Semiconductor Dry Etchant Upstream Analysis

8.2.1 Semiconductor Dry Etchant Core Raw Materials

8.2.2 Main Manufacturers of Semiconductor Dry Etchant Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Semiconductor Dry Etchant Production Mode

8.6 Semiconductor Dry Etchant Procurement Model

8.7 Semiconductor Dry Etchant Industry Sales Model and Sales Channels

8.7.1 Semiconductor Dry Etchant Sales Model

8.7.2 Semiconductor Dry Etchant 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 Semiconductor Dry Etchant Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Semiconductor Dry Etchant Production Value by Region (2018-2023) & (USD Million)

Table 3. World Semiconductor Dry Etchant Production Value by Region (2024-2029) & (USD Million)

Table 4. World Semiconductor Dry Etchant Production Value Market Share by Region (2018-2023)

Table 5. World Semiconductor Dry Etchant Production Value Market Share by Region (2024-2029)

Table 6. World Semiconductor Dry Etchant Production by Region (2018-2023) & (Tons)

Table 7. World Semiconductor Dry Etchant Production by Region (2024-2029) & (Tons)

Table 8. World Semiconductor Dry Etchant Production Market Share by Region (2018-2023)

Table 9. World Semiconductor Dry Etchant Production Market Share by Region (2024-2029)

Table 10. World Semiconductor Dry Etchant Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World Semiconductor Dry Etchant Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. Semiconductor Dry Etchant Major Market Trends

Table 13. World Semiconductor Dry Etchant Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World Semiconductor Dry Etchant Consumption by Region (2018-2023) & (Tons)

Table 15. World Semiconductor Dry Etchant Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World Semiconductor Dry Etchant Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Dry Etchant Producers in 2022

Table 18. World Semiconductor Dry Etchant Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key Semiconductor Dry Etchant Producers in 2022

- Table 20. World Semiconductor Dry Etchant Average Price by Manufacturer (2018-2023) & (US\$/Ton)
- Table 21. Global Semiconductor Dry Etchant Company Evaluation Quadrant
- Table 22. World Semiconductor Dry Etchant Industry Rank of Major Manufacturers, Based on Production Value in 2022
- Table 23. Head Office and Semiconductor Dry Etchant Production Site of Key Manufacturer
- Table 24. Semiconductor Dry Etchant Market: Company Product Type Footprint
- Table 25. Semiconductor Dry Etchant Market: Company Product Application Footprint
- Table 26. Semiconductor Dry Etchant Competitive Factors
- Table 27. Semiconductor Dry Etchant New Entrant and Capacity Expansion Plans
- Table 28. Semiconductor Dry Etchant Mergers & Acquisitions Activity
- Table 29. United States VS China Semiconductor Dry Etchant Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)
- Table 30. United States VS China Semiconductor Dry Etchant Production Comparison, (2018 & 2022 & 2029) & (Tons)
- Table 31. United States VS China Semiconductor Dry Etchant Consumption Comparison, (2018 & 2022 & 2029) & (Tons)
- Table 32. United States Based Semiconductor Dry Etchant Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Semiconductor Dry Etchant Production Value, (2018-2023) & (USD Million)
- Table 34. United States Based Manufacturers Semiconductor Dry Etchant Production Value Market Share (2018-2023)
- Table 35. United States Based Manufacturers Semiconductor Dry Etchant Production (2018-2023) & (Tons)
- Table 36. United States Based Manufacturers Semiconductor Dry Etchant Production Market Share (2018-2023)
- Table 37. China Based Semiconductor Dry Etchant Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Semiconductor Dry Etchant Production Value, (2018-2023) & (USD Million)
- Table 39. China Based Manufacturers Semiconductor Dry Etchant Production Value Market Share (2018-2023)
- Table 40. China Based Manufacturers Semiconductor Dry Etchant Production (2018-2023) & (Tons)
- Table 41. China Based Manufacturers Semiconductor Dry Etchant Production Market Share (2018-2023)
- Table 42. Rest of World Based Semiconductor Dry Etchant Manufacturers,

Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Semiconductor Dry Etchant Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Semiconductor Dry Etchant Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Semiconductor Dry Etchant Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers Semiconductor Dry Etchant Production Market Share (2018-2023)

Table 47. World Semiconductor Dry Etchant Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Semiconductor Dry Etchant Production by Type (2018-2023) & (Tons)

Table 49. World Semiconductor Dry Etchant Production by Type (2024-2029) & (Tons)

Table 50. World Semiconductor Dry Etchant Production Value by Type (2018-2023) & (USD Million)

Table 51. World Semiconductor Dry Etchant Production Value by Type (2024-2029) & (USD Million)

Table 52. World Semiconductor Dry Etchant Average Price by Type (2018-2023) & (US\$/Ton)

Table 53. World Semiconductor Dry Etchant Average Price by Type (2024-2029) & (US\$/Ton)

Table 54. World Semiconductor Dry Etchant Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Semiconductor Dry Etchant Production by Application (2018-2023) & (Tons)

Table 56. World Semiconductor Dry Etchant Production by Application (2024-2029) & (Tons)

Table 57. World Semiconductor Dry Etchant Production Value by Application (2018-2023) & (USD Million)

Table 58. World Semiconductor Dry Etchant Production Value by Application (2024-2029) & (USD Million)

Table 59. World Semiconductor Dry Etchant Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World Semiconductor Dry Etchant Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. Solvay Basic Information, Manufacturing Base and Competitors

Table 62. Solvay Major Business

Table 63. Solvay Semiconductor Dry Etchant Product and Services

Table 64. Solvay Semiconductor Dry Etchant Production (Tons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Solvay Recent Developments/Updates

Table 66. Solvay Competitive Strengths & Weaknesses

Table 67. Entegris Basic Information, Manufacturing Base and Competitors

Table 68. Entegris Major Business

Table 69. Entegris Semiconductor Dry Etchant Product and Services

Table 70. Entegris Semiconductor Dry Etchant Production (Tons), Price (US\$/Ton),
Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Entegris Recent Developments/Updates

Table 72. Entegris Competitive Strengths & Weaknesses

Table 73. CAPCHEM Basic Information, Manufacturing Base and Competitors

Table 74. CAPCHEM Major Business

Table 75. CAPCHEM Semiconductor Dry Etchant Product and Services

Table 76. CAPCHEM Semiconductor Dry Etchant Production (Tons), Price (US\$/Ton),
Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. CAPCHEM Recent Developments/Updates

Table 78. Daikin Basic Information, Manufacturing Base and Competitors

Table 79. Daikin Major Business

Table 80. Daikin Semiconductor Dry Etchant Product and Services

Table 81. Daikin Semiconductor Dry Etchant Production (Tons), Price (US\$/Ton),
Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 82. Global Key Players of Semiconductor Dry Etchant Upstream (Raw Materials)

Table 83. Semiconductor Dry Etchant Typical Customers

Table 84. Semiconductor Dry Etchant Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Semiconductor Dry Etchant Picture
- Figure 2. World Semiconductor Dry Etchant Production Value: 2018 & 2022 & 2029, (USD Million)
- Figure 3. World Semiconductor Dry Etchant Production Value and Forecast (2018-2029) & (USD Million)
- Figure 4. World Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 5. World Semiconductor Dry Etchant Average Price (2018-2029) & (US\$/Ton)
- Figure 6. World Semiconductor Dry Etchant Production Value Market Share by Region (2018-2029)
- Figure 7. World Semiconductor Dry Etchant Production Market Share by Region (2018-2029)
- Figure 8. North America Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 9. Europe Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 10. China Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 11. Japan Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 12. South Korea Semiconductor Dry Etchant Production (2018-2029) & (Tons)
- Figure 13. Semiconductor Dry Etchant Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 16. World Semiconductor Dry Etchant Consumption Market Share by Region (2018-2029)
- Figure 17. United States Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 18. China Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 19. Europe Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 20. Japan Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 21. South Korea Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 22. ASEAN Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 23. India Semiconductor Dry Etchant Consumption (2018-2029) & (Tons)
- Figure 24. Producer Shipments of Semiconductor Dry Etchant by Manufacturer Revenue (\$MM) and Market Share (%): 2022
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Semiconductor Dry Etchant Markets in 2022
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Semiconductor Dry Etchant Markets in 2022

Figure 27. United States VS China: Semiconductor Dry Etchant Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Semiconductor Dry Etchant Production Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States VS China: Semiconductor Dry Etchant Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 30. United States Based Manufacturers Semiconductor Dry Etchant Production Market Share 2022

Figure 31. China Based Manufacturers Semiconductor Dry Etchant Production Market Share 2022

Figure 32. Rest of World Based Manufacturers Semiconductor Dry Etchant Production Market Share 2022

Figure 33. World Semiconductor Dry Etchant Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 34. World Semiconductor Dry Etchant Production Value Market Share by Type in 2022

Figure 35. SF6 Gas

Figure 36. HCl Gas

Figure 37. Cl2 Gas

Figure 38. Others

Figure 39. World Semiconductor Dry Etchant Production Market Share by Type (2018-2029)

Figure 40. World Semiconductor Dry Etchant Production Value Market Share by Type (2018-2029)

Figure 41. World Semiconductor Dry Etchant Average Price by Type (2018-2029) & (US\$/Ton)

Figure 42. World Semiconductor Dry Etchant Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 43. World Semiconductor Dry Etchant Production Value Market Share by Application in 2022

Figure 44. Silicon Wafer

Figure 45. Metallic Film

Figure 46. SiN

Figure 47. Aluminum Oxide

Figure 48. Photoresist

Figure 49. Others

Figure 50. World Semiconductor Dry Etchant Production Market Share by Application (2018-2029)

Figure 51. World Semiconductor Dry Etchant Production Value Market Share by

Application (2018-2029)

Figure 52. World Semiconductor Dry Etchant Average Price by Application (2018-2029) & (US\$/Ton)

Figure 53. Semiconductor Dry Etchant Industry Chain

Figure 54. Semiconductor Dry Etchant Procurement Model

Figure 55. Semiconductor Dry Etchant Sales Model

Figure 56. Semiconductor Dry Etchant Sales Channels, Direct Sales, and Distribution

Figure 57. Methodology

Figure 58. Research Process and Data Source

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