

Global Silicon Dioxide Etchant Market Research Report 2025(Status and Outlook)

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Abstracts

Silicon dioxide etchant refers to chemical solutions or formulations specifically designed to selectively remove or pattern silicon dioxide (SiO_2) layers, a fundamental dielectric material widely used in semiconductor manufacturing, microelectronics fabrication, and MEMS (micro-electro-mechanical systems) production. These etchants function through either wet etching—utilizing acids such as hydrofluoric acid (HF) or buffered oxide etch (BOE), which combines HF with a buffering agent like ammonium fluoride—or dry etching techniques, including plasma-based processes that employ gases such as fluorocarbons. The selection of etchant type depends on application requirements, including etch rate, selectivity (the ability to etch SiO_2 without significantly affecting underlying or adjacent materials like silicon or metal layers), anisotropy (directional etching), surface roughness, and compatibility with other process steps.

The global Silicon Dioxide Etchant market size was estimated at USD 420.5 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 6.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Silicon Dioxide Etchant market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Silicon Dioxide Etchant market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Silicon Dioxide Etchant market.

Global Silicon Dioxide Etchant Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Transene
Honeywell
BASF
Mitsubishi Chemical
MicroChemicals
Thomas Scientific
JST Manufacturing
Capchem
Daikin
Nanjing Shnking Chemical
Jiangyin Runma Electronic Material

Boyang Chemical
Formosa Daikin Advanced Chemicals

Market Segmentation (by Type)

Buffer Grade
Electronic Grade

Market Segmentation (by Application)

Semiconductor
Optical Equipment
Optical Fiber Communication
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Silicon Dioxide Etchant Market

Overview of the regional outlook of the Silicon Dioxide Etchant Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Silicon Dioxide Etchant Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future

development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Silicon Dioxide Etchant, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each

region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Silicon Dioxide Etchant

1.2 Key Market Segments

1.2.1 Silicon Dioxide Etchant Segment by Type

1.2.2 Silicon Dioxide Etchant Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SILICON DIOXIDE ETCHANT MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Silicon Dioxide Etchant Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Silicon Dioxide Etchant Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SILICON DIOXIDE ETCHANT MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Silicon Dioxide Etchant Product Life Cycle

3.3 Global Silicon Dioxide Etchant Sales by Manufacturers (2020-2025)

3.4 Global Silicon Dioxide Etchant Revenue Market Share by Manufacturers (2020-2025)

3.5 Silicon Dioxide Etchant Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Silicon Dioxide Etchant Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Silicon Dioxide Etchant Market Competitive Situation and Trends

3.8.1 Silicon Dioxide Etchant Market Concentration Rate

3.8.2 Global 5 and 10 Largest Silicon Dioxide Etchant Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SILICON DIOXIDE ETCHANT INDUSTRY CHAIN ANALYSIS

- 4.1 Silicon Dioxide Etchant Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SILICON DIOXIDE ETCHANT MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Silicon Dioxide Etchant Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Silicon Dioxide Etchant Market
- 5.7 ESG Ratings of Leading Companies

6 SILICON DIOXIDE ETCHANT MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Silicon Dioxide Etchant Sales Market Share by Type (2020-2025)
- 6.3 Global Silicon Dioxide Etchant Market Size Market Share by Type (2020-2025)
- 6.4 Global Silicon Dioxide Etchant Price by Type (2020-2025)

7 SILICON DIOXIDE ETCHANT MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

- 7.2 Global Silicon Dioxide Etchant Market Sales by Application (2020-2025)
- 7.3 Global Silicon Dioxide Etchant Market Size (M USD) by Application (2020-2025)
- 7.4 Global Silicon Dioxide Etchant Sales Growth Rate by Application (2020-2025)

8 SILICON DIOXIDE ETCHANT MARKET SALES BY REGION

- 8.1 Global Silicon Dioxide Etchant Sales by Region
 - 8.1.1 Global Silicon Dioxide Etchant Sales by Region
 - 8.1.2 Global Silicon Dioxide Etchant Sales Market Share by Region
- 8.2 Global Silicon Dioxide Etchant Market Size by Region
 - 8.2.1 Global Silicon Dioxide Etchant Market Size by Region
 - 8.2.2 Global Silicon Dioxide Etchant Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Silicon Dioxide Etchant Sales by Country
 - 8.3.2 North America Silicon Dioxide Etchant Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Silicon Dioxide Etchant Sales by Country
 - 8.4.2 Europe Silicon Dioxide Etchant Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Silicon Dioxide Etchant Sales by Region
 - 8.5.2 Asia Pacific Silicon Dioxide Etchant Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Silicon Dioxide Etchant Sales by Country
 - 8.6.2 South America Silicon Dioxide Etchant Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Silicon Dioxide Etchant Sales by Region

8.7.2 Middle East and Africa Silicon Dioxide Etchant Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 SILICON DIOXIDE ETCHANT MARKET PRODUCTION BY REGION

9.1 Global Production of Silicon Dioxide Etchant by Region(2020-2025)

9.2 Global Silicon Dioxide Etchant Revenue Market Share by Region (2020-2025)

9.3 Global Silicon Dioxide Etchant Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Silicon Dioxide Etchant Production

9.4.1 North America Silicon Dioxide Etchant Production Growth Rate (2020-2025)

9.4.2 North America Silicon Dioxide Etchant Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Silicon Dioxide Etchant Production

9.5.1 Europe Silicon Dioxide Etchant Production Growth Rate (2020-2025)

9.5.2 Europe Silicon Dioxide Etchant Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Silicon Dioxide Etchant Production (2020-2025)

9.6.1 Japan Silicon Dioxide Etchant Production Growth Rate (2020-2025)

9.6.2 Japan Silicon Dioxide Etchant Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Silicon Dioxide Etchant Production (2020-2025)

9.7.1 China Silicon Dioxide Etchant Production Growth Rate (2020-2025)

9.7.2 China Silicon Dioxide Etchant Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Transene

10.1.1 Transene Basic Information

10.1.2 Transene Silicon Dioxide Etchant Product Overview

10.1.3 Transene Silicon Dioxide Etchant Product Market Performance

- 10.1.4 Transene Business Overview
- 10.1.5 Transene SWOT Analysis
- 10.1.6 Transene Recent Developments
- 10.2 Honeywell
 - 10.2.1 Honeywell Basic Information
 - 10.2.2 Honeywell Silicon Dioxide Etchant Product Overview
 - 10.2.3 Honeywell Silicon Dioxide Etchant Product Market Performance
 - 10.2.4 Honeywell Business Overview
 - 10.2.5 Honeywell SWOT Analysis
 - 10.2.6 Honeywell Recent Developments
- 10.3 Basf
 - 10.3.1 Basf Basic Information
 - 10.3.2 Basf Silicon Dioxide Etchant Product Overview
 - 10.3.3 Basf Silicon Dioxide Etchant Product Market Performance
 - 10.3.4 Basf Business Overview
 - 10.3.5 Basf SWOT Analysis
 - 10.3.6 Basf Recent Developments
- 10.4 Mitsubishi Chemical
 - 10.4.1 Mitsubishi Chemical Basic Information
 - 10.4.2 Mitsubishi Chemical Silicon Dioxide Etchant Product Overview
 - 10.4.3 Mitsubishi Chemical Silicon Dioxide Etchant Product Market Performance
 - 10.4.4 Mitsubishi Chemical Business Overview
 - 10.4.5 Mitsubishi Chemical Recent Developments
- 10.5 MicroChemicals
 - 10.5.1 MicroChemicals Basic Information
 - 10.5.2 MicroChemicals Silicon Dioxide Etchant Product Overview
 - 10.5.3 MicroChemicals Silicon Dioxide Etchant Product Market Performance
 - 10.5.4 MicroChemicals Business Overview
 - 10.5.5 MicroChemicals Recent Developments
- 10.6 Thomas Scientific
 - 10.6.1 Thomas Scientific Basic Information
 - 10.6.2 Thomas Scientific Silicon Dioxide Etchant Product Overview
 - 10.6.3 Thomas Scientific Silicon Dioxide Etchant Product Market Performance
 - 10.6.4 Thomas Scientific Business Overview
 - 10.6.5 Thomas Scientific Recent Developments
- 10.7 JST Manufacturing
 - 10.7.1 JST Manufacturing Basic Information
 - 10.7.2 JST Manufacturing Silicon Dioxide Etchant Product Overview
 - 10.7.3 JST Manufacturing Silicon Dioxide Etchant Product Market Performance

- 10.7.4 JST Manufacturing Business Overview
- 10.7.5 JST Manufacturing Recent Developments
- 10.8 Capchem
 - 10.8.1 Capchem Basic Information
 - 10.8.2 Capchem Silicon Dioxide Etchant Product Overview
 - 10.8.3 Capchem Silicon Dioxide Etchant Product Market Performance
 - 10.8.4 Capchem Business Overview
 - 10.8.5 Capchem Recent Developments
- 10.9 Daikin
 - 10.9.1 Daikin Basic Information
 - 10.9.2 Daikin Silicon Dioxide Etchant Product Overview
 - 10.9.3 Daikin Silicon Dioxide Etchant Product Market Performance
 - 10.9.4 Daikin Business Overview
 - 10.9.5 Daikin Recent Developments
- 10.10 Nnanjing Shnking Chemical
 - 10.10.1 Nnanjing Shnking Chemical Basic Information
 - 10.10.2 Nnanjing Shnking Chemical Silicon Dioxide Etchant Product Overview
 - 10.10.3 Nnanjing Shnking Chemical Silicon Dioxide Etchant Product Market Performance
 - 10.10.4 Nnanjing Shnking Chemical Business Overview
 - 10.10.5 Nnanjing Shnking Chemical Recent Developments
- 10.11 Jiangyin Runma Electronic Material
 - 10.11.1 Jiangyin Runma Electronic Material Basic Information
 - 10.11.2 Jiangyin Runma Electronic Material Silicon Dioxide Etchant Product Overview
 - 10.11.3 Jiangyin Runma Electronic Material Silicon Dioxide Etchant Product Market Performance
 - 10.11.4 Jiangyin Runma Electronic Material Business Overview
 - 10.11.5 Jiangyin Runma Electronic Material Recent Developments
- 10.12 Boyang Chemical
 - 10.12.1 Boyang Chemical Basic Information
 - 10.12.2 Boyang Chemical Silicon Dioxide Etchant Product Overview
 - 10.12.3 Boyang Chemical Silicon Dioxide Etchant Product Market Performance
 - 10.12.4 Boyang Chemical Business Overview
 - 10.12.5 Boyang Chemical Recent Developments
- 10.13 Formosa Daikin Advanced Chemicals
 - 10.13.1 Formosa Daikin Advanced Chemicals Basic Information
 - 10.13.2 Formosa Daikin Advanced Chemicals Silicon Dioxide Etchant Product Overview
 - 10.13.3 Formosa Daikin Advanced Chemicals Silicon Dioxide Etchant Product Market

Performance

10.13.4 Formosa Daikin Advanced Chemicals Business Overview

10.13.5 Formosa Daikin Advanced Chemicals Recent Developments

11 SILICON DIOXIDE ETCHANT MARKET FORECAST BY REGION

11.1 Global Silicon Dioxide Etchant Market Size Forecast

11.2 Global Silicon Dioxide Etchant Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Silicon Dioxide Etchant Market Size Forecast by Country

11.2.3 Asia Pacific Silicon Dioxide Etchant Market Size Forecast by Region

11.2.4 South America Silicon Dioxide Etchant Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Silicon Dioxide Etchant by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Silicon Dioxide Etchant Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Silicon Dioxide Etchant by Type (2026-2033)

12.1.2 Global Silicon Dioxide Etchant Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Silicon Dioxide Etchant by Type (2026-2033)

12.2 Global Silicon Dioxide Etchant Market Forecast by Application (2026-2033)

12.2.1 Global Silicon Dioxide Etchant Sales (K MT) Forecast by Application

12.2.2 Global Silicon Dioxide Etchant Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Silicon Dioxide Etchant Market Size Comparison by Region (M USD)

Table 5. Global Silicon Dioxide Etchant Sales (K MT) by Manufacturers (2020-2025)

Table 6. Global Silicon Dioxide Etchant Sales Market Share by Manufacturers (2020-2025)

Table 7. Global Silicon Dioxide Etchant Revenue (M USD) by Manufacturers (2020-2025)

Table 8. Global Silicon Dioxide Etchant Revenue Share by Manufacturers (2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Silicon Dioxide Etchant as of 2024)

Table 10. Global Market Silicon Dioxide Etchant Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Silicon Dioxide Etchant Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Silicon Dioxide Etchant Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Silicon Dioxide Etchant Sales by Type (K MT)

Table 26. Global Silicon Dioxide Etchant Market Size by Type (M USD)

Table 27. Global Silicon Dioxide Etchant Sales (K MT) by Type (2020-2025)

Table 28. Global Silicon Dioxide Etchant Sales Market Share by Type (2020-2025)

Table 29. Global Silicon Dioxide Etchant Market Size (M USD) by Type (2020-2025)

Table 30. Global Silicon Dioxide Etchant Market Size Share by Type (2020-2025)
Table 31. Global Silicon Dioxide Etchant Price (USD/KG) by Type (2020-2025)
Table 32. Global Silicon Dioxide Etchant Sales (K MT) by Application
Table 33. Global Silicon Dioxide Etchant Market Size by Application
Table 34. Global Silicon Dioxide Etchant Sales by Application (2020-2025) & (K MT)
Table 35. Global Silicon Dioxide Etchant Sales Market Share by Application (2020-2025)
Table 36. Global Silicon Dioxide Etchant Market Size by Application (2020-2025) & (M USD)
Table 37. Global Silicon Dioxide Etchant Market Share by Application (2020-2025)
Table 38. Global Silicon Dioxide Etchant Sales Growth Rate by Application (2020-2025)
Table 39. Global Silicon Dioxide Etchant Sales by Region (2020-2025) & (K MT)
Table 40. Global Silicon Dioxide Etchant Sales Market Share by Region (2020-2025)
Table 41. Global Silicon Dioxide Etchant Market Size by Region (2020-2025) & (M USD)
Table 42. Global Silicon Dioxide Etchant Market Size Market Share by Region (2020-2025)
Table 43. North America Silicon Dioxide Etchant Sales by Country (2020-2025) & (K MT)
Table 44. North America Silicon Dioxide Etchant Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Silicon Dioxide Etchant Sales by Country (2020-2025) & (K MT)
Table 46. Europe Silicon Dioxide Etchant Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Silicon Dioxide Etchant Sales by Region (2020-2025) & (K MT)
Table 48. Asia Pacific Silicon Dioxide Etchant Market Size by Region (2020-2025) & (M USD)
Table 49. South America Silicon Dioxide Etchant Sales by Country (2020-2025) & (K MT)
Table 50. South America Silicon Dioxide Etchant Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Silicon Dioxide Etchant Sales by Region (2020-2025) & (K MT)
Table 52. Middle East and Africa Silicon Dioxide Etchant Market Size by Region (2020-2025) & (M USD)
Table 53. Global Silicon Dioxide Etchant Production (K MT) by Region(2020-2025)
Table 54. Global Silicon Dioxide Etchant Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Silicon Dioxide Etchant Revenue Market Share by Region (2020-2025)
Table 56. Global Silicon Dioxide Etchant Production (K MT), Revenue (US\$ Million),

Price (USD/KG) and Gross Margin (2020-2025)

Table 57. North America Silicon Dioxide Etchant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. Europe Silicon Dioxide Etchant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Silicon Dioxide Etchant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Silicon Dioxide Etchant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Transene Basic Information

Table 62. Transene Silicon Dioxide Etchant Product Overview

Table 63. Transene Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Transene Business Overview

Table 65. Transene SWOT Analysis

Table 66. Transene Recent Developments

Table 67. Honeywell Basic Information

Table 68. Honeywell Silicon Dioxide Etchant Product Overview

Table 69. Honeywell Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Honeywell Business Overview

Table 71. Honeywell SWOT Analysis

Table 72. Honeywell Recent Developments

Table 73. Basf Basic Information

Table 74. Basf Silicon Dioxide Etchant Product Overview

Table 75. Basf Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. Basf Business Overview

Table 77. Basf SWOT Analysis

Table 78. Basf Recent Developments

Table 79. Mitsubishi Chemical Basic Information

Table 80. Mitsubishi Chemical Silicon Dioxide Etchant Product Overview

Table 81. Mitsubishi Chemical Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. Mitsubishi Chemical Business Overview

Table 83. Mitsubishi Chemical Recent Developments

Table 84. MicroChemicals Basic Information

Table 85. MicroChemicals Silicon Dioxide Etchant Product Overview

Table 86. MicroChemicals Silicon Dioxide Etchant Sales (K MT), Revenue (M USD),

Price (USD/KG) and Gross Margin (2020-2025)

Table 87. MicroChemicals Business Overview

Table 88. MicroChemicals Recent Developments

Table 89. Thomas Scientific Basic Information

Table 90. Thomas Scientific Silicon Dioxide Etchant Product Overview

Table 91. Thomas Scientific Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 92. Thomas Scientific Business Overview

Table 93. Thomas Scientific Recent Developments

Table 94. JST Manufacturing Basic Information

Table 95. JST Manufacturing Silicon Dioxide Etchant Product Overview

Table 96. JST Manufacturing Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 97. JST Manufacturing Business Overview

Table 98. JST Manufacturing Recent Developments

Table 99. Capchem Basic Information

Table 100. Capchem Silicon Dioxide Etchant Product Overview

Table 101. Capchem Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 102. Capchem Business Overview

Table 103. Capchem Recent Developments

Table 104. Daikin Basic Information

Table 105. Daikin Silicon Dioxide Etchant Product Overview

Table 106. Daikin Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 107. Daikin Business Overview

Table 108. Daikin Recent Developments

Table 109. Nnanjing Shnking Chemical Basic Information

Table 110. Nnanjing Shnking Chemical Silicon Dioxide Etchant Product Overview

Table 111. Nnanjing Shnking Chemical Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 112. Nnanjing Shnking Chemical Business Overview

Table 113. Nnanjing Shnking Chemical Recent Developments

Table 114. Jiangyin Runma Electronic Material Basic Information

Table 115. Jiangyin Runma Electronic Material Silicon Dioxide Etchant Product Overview

Table 116. Jiangyin Runma Electronic Material Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 117. Jiangyin Runma Electronic Material Business Overview

Table 118. Jiangyin Runma Electronic Material Recent Developments

Table 119. Boyang Chemical Basic Information

Table 120. Boyang Chemical Silicon Dioxide Etchant Product Overview

Table 121. Boyang Chemical Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 122. Boyang Chemical Business Overview

Table 123. Boyang Chemical Recent Developments

Table 124. Formosa Daikin Advanced Chemicals Basic Information

Table 125. Formosa Daikin Advanced Chemicals Silicon Dioxide Etchant Product Overview

Table 126. Formosa Daikin Advanced Chemicals Silicon Dioxide Etchant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 127. Formosa Daikin Advanced Chemicals Business Overview

Table 128. Formosa Daikin Advanced Chemicals Recent Developments

Table 129. Global Silicon Dioxide Etchant Sales Forecast by Region (2026-2033) & (K MT)

Table 130. Global Silicon Dioxide Etchant Market Size Forecast by Region (2026-2033) & (M USD)

Table 131. North America Silicon Dioxide Etchant Sales Forecast by Country (2026-2033) & (K MT)

Table 132. North America Silicon Dioxide Etchant Market Size Forecast by Country (2026-2033) & (M USD)

Table 133. Europe Silicon Dioxide Etchant Sales Forecast by Country (2026-2033) & (K MT)

Table 134. Europe Silicon Dioxide Etchant Market Size Forecast by Country (2026-2033) & (M USD)

Table 135. Asia Pacific Silicon Dioxide Etchant Sales Forecast by Region (2026-2033) & (K MT)

Table 136. Asia Pacific Silicon Dioxide Etchant Market Size Forecast by Region (2026-2033) & (M USD)

Table 137. South America Silicon Dioxide Etchant Sales Forecast by Country (2026-2033) & (K MT)

Table 138. South America Silicon Dioxide Etchant Market Size Forecast by Country (2026-2033) & (M USD)

Table 139. Middle East and Africa Silicon Dioxide Etchant Sales Forecast by Country (2026-2033) & (Units)

Table 140. Middle East and Africa Silicon Dioxide Etchant Market Size Forecast by Country (2026-2033) & (M USD)

Table 141. Global Silicon Dioxide Etchant Sales Forecast by Type (2026-2033) & (K

MT)

Table 142. Global Silicon Dioxide Etchant Market Size Forecast by Type (2026-2033) & (M USD)

Table 143. Global Silicon Dioxide Etchant Price Forecast by Type (2026-2033) & (USD/KG)

Table 144. Global Silicon Dioxide Etchant Sales (K MT) Forecast by Application (2026-2033)

Table 145. Global Silicon Dioxide Etchant Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Silicon Dioxide Etchant
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Silicon Dioxide Etchant Market Size (M USD), 2024-2033
- Figure 5. Global Silicon Dioxide Etchant Market Size (M USD) (2020-2033)
- Figure 6. Global Silicon Dioxide Etchant Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Silicon Dioxide Etchant Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Silicon Dioxide Etchant Product Life Cycle
- Figure 13. Silicon Dioxide Etchant Sales Share by Manufacturers in 2024
- Figure 14. Global Silicon Dioxide Etchant Revenue Share by Manufacturers in 2024
- Figure 15. Silicon Dioxide Etchant Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Silicon Dioxide Etchant Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Silicon Dioxide Etchant Revenue in 2024
- Figure 18. Industry Chain Map of Silicon Dioxide Etchant
- Figure 19. Global Silicon Dioxide Etchant Market PEST Analysis
- Figure 20. Global Silicon Dioxide Etchant Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Silicon Dioxide Etchant Market Share by Type
- Figure 27. Sales Market Share of Silicon Dioxide Etchant by Type (2020-2025)
- Figure 28. Sales Market Share of Silicon Dioxide Etchant by Type in 2024
- Figure 29. Market Size Share of Silicon Dioxide Etchant by Type (2020-2025)
- Figure 30. Market Size Share of Silicon Dioxide Etchant by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Silicon Dioxide Etchant Market Share by Application

Figure 33. Global Silicon Dioxide Etchant Sales Market Share by Application (2020-2025)

Figure 34. Global Silicon Dioxide Etchant Sales Market Share by Application in 2024

Figure 35. Global Silicon Dioxide Etchant Market Share by Application (2020-2025)

Figure 36. Global Silicon Dioxide Etchant Market Share by Application in 2024

Figure 37. Global Silicon Dioxide Etchant Sales Growth Rate by Application (2020-2025)

Figure 38. Global Silicon Dioxide Etchant Sales Market Share by Region (2020-2025)

Figure 39. Global Silicon Dioxide Etchant Market Size Market Share by Region (2020-2025)

Figure 40. North America Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Silicon Dioxide Etchant Sales Market Share by Country in 2024

Figure 43. North America Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Silicon Dioxide Etchant Market Size Market Share by Country in 2024

Figure 45. U.S. Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Silicon Dioxide Etchant Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Silicon Dioxide Etchant Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Silicon Dioxide Etchant Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Silicon Dioxide Etchant Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Silicon Dioxide Etchant Sales Market Share by Country in 2024

Figure 53. Europe Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Silicon Dioxide Etchant Market Size Market Share by Country in 2024

Figure 55. Germany Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 57. France Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Silicon Dioxide Etchant Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Silicon Dioxide Etchant Sales Market Share by Region in 2024

Figure 67. Asia Pacific Silicon Dioxide Etchant Market Size Market Share by Region in 2024

Figure 68. China Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Silicon Dioxide Etchant Sales and Growth Rate (K MT)

Figure 79. South America Silicon Dioxide Etchant Sales Market Share by Country in 2024

Figure 80. South America Silicon Dioxide Etchant Market Size and Growth Rate (M

USD)

Figure 81. South America Silicon Dioxide Etchant Market Size Market Share by Country in 2024

Figure 82. Brazil Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Silicon Dioxide Etchant Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Silicon Dioxide Etchant Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Silicon Dioxide Etchant Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Silicon Dioxide Etchant Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Silicon Dioxide Etchant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Silicon Dioxide Etchant Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Silicon Dioxide Etchant Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 102. Global Silicon Dioxide Etchant Production Market Share by Region
(2020-2025)

Figure 103. North America Silicon Dioxide Etchant Production (K MT) Growth Rate
(2020-2025)

Figure 104. Europe Silicon Dioxide Etchant Production (K MT) Growth Rate
(2020-2025)

Figure 105. Japan Silicon Dioxide Etchant Production (K MT) Growth Rate (2020-2025)

Figure 106. China Silicon Dioxide Etchant Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Silicon Dioxide Etchant Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Silicon Dioxide Etchant Market Size Forecast by Value (2020-2033)
& (M USD)

Figure 109. Global Silicon Dioxide Etchant Sales Market Share Forecast by Type
(2026-2033)

Figure 110. Global Silicon Dioxide Etchant Market Share Forecast by Type (2026-2033)

Figure 111. Global Silicon Dioxide Etchant Sales Forecast by Application (2026-2033)

Figure 112. Global Silicon Dioxide Etchant Market Share Forecast by Application
(2026-2033)

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