

# Global Semiconductor Fumed Silica Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFE171A5EC08EN.html>

Date: May 2026

Pages: 151

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

ID: GFE171A5EC08EN

## Abstracts

The global Semiconductor Fumed Silica market size is expected to reach \$ 297 million by 2032, rising at a market growth of 9.3% CAGR during the forecast period (2026-2032).

Semiconductor-grade fumed silica is a high-purity nanoscale amorphous silicon dioxide produced via high-temperature vapor-phase hydrolysis or flame processes, typically using silicon tetrachloride or organosilicon precursors. It features extremely high specific surface area, excellent dispersibility, and chemical inertness. In semiconductor applications, strict control over metal impurities, particle size distribution, and surface chemistry is required. It is widely used in chemical mechanical polishing (CMP) slurries, lithography-related materials, electronic packaging, and high-purity fillers, playing a critical role in achieving surface planarization and material performance optimization in advanced semiconductor processes.

The upstream of semiconductor-grade fumed silica includes high-purity silicon sources such as silicon tetrachloride, hydrogen, oxygen, and high-temperature processing equipment suppliers. Key companies include Wacker Chemie, Evonik, and Cabot Corporation. The midstream consists of fumed silica manufacturers producing nanoscale powders through flame hydrolysis and surface modification processes. Downstream applications are concentrated in semiconductor fabrication and materials companies such as TSMC, Intel, and Samsung Electronics. In addition, CMP slurry suppliers like Entegris and Fujimi Incorporated serve as critical intermediaries. The industry is characterized by high-purity raw materials upstream, advanced nanomaterial processing midstream, and semiconductor process-driven demand downstream.

The semiconductor-grade fumed silica market is in a growth phase, driven by the

increasing demand for higher precision and purity in advanced semiconductor manufacturing processes, particularly in CMP applications. As logic and memory technologies advance, tighter control over nanoparticle size and dispersion stability is required, pushing products toward higher performance levels. Industry expansion and localization trends further support market growth. However, the sector faces challenges such as high technical barriers, long customer qualification cycles, and dominance by established global players. Overall, the market is expected to evolve toward higher purity, enhanced performance, and customized solutions.

This report studies the global Semiconductor Fumed Silica production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Fumed Silica and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor Fumed Silica that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Semiconductor Fumed Silica total production and demand, 2021-2032, (Kilotons)

Global Semiconductor Fumed Silica total production value, 2021-2032, (USD Million)

Global Semiconductor Fumed Silica production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Semiconductor Fumed Silica consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Semiconductor Fumed Silica domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Fumed Silica production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Semiconductor Fumed Silica production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Semiconductor Fumed Silica production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Semiconductor Fumed Silica 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 OCI, Evonik, Tokuyama, Cabot Corporation, Heraeus, Wacker, Orisil, Vitro Minerals, Xunyu Chemical, Hoshine Silicon, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor Fumed Silica market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### **Global Semiconductor Fumed Silica Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global Semiconductor Fumed Silica Market, Segmentation by Type:**

Hydrophobic Fumed Silica

Hydrophilic Fumed Silica

## Global Semiconductor Fumed Silica Market, Segmentation by BET Specific Surface Area:

50?100 m<sup>2</sup>/g

100?300 m<sup>2</sup>/g

300?400 m<sup>2</sup>/g

Others

## Global Semiconductor Fumed Silica Market, Segmentation by Particle Size:

50?100 nm

100?300 nm

300?500 nm

Others

## Global Semiconductor Fumed Silica Market, Segmentation by Application:

CMP Slurry

Solar Cell

Catalyst

Other

## Companies Profiled:

OCI

Evonik

Tokuyama

Cabot Corporation

Heraeus

Wacker

Orisil

Vitro Minerals

Xunyu Chemical

Hoshine Silicon

Huifu Nanomaterial

Fushite

Sunfar Silicon

Hungpai New

Dongyue Organic Silicon

Changqing New Material

Futael

### **Key Questions Answered:**

1. How big is the global Semiconductor Fumed Silica market?
2. What is the demand of the global Semiconductor Fumed Silica market?
3. What is the year over year growth of the global Semiconductor Fumed Silica market?
4. What is the production and production value of the global Semiconductor Fumed

Silica market?

5. Who are the key producers in the global Semiconductor Fumed Silica market?

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Semiconductor Fumed Silica Introduction
- 1.2 World Semiconductor Fumed Silica Supply & Forecast
  - 1.2.1 World Semiconductor Fumed Silica Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Semiconductor Fumed Silica Production (2021-2032)
  - 1.2.3 World Semiconductor Fumed Silica Pricing Trends (2021-2032)
- 1.3 World Semiconductor Fumed Silica Production by Region (Based on Production Site)
  - 1.3.1 World Semiconductor Fumed Silica Production Value by Region (2021-2032)
  - 1.3.2 World Semiconductor Fumed Silica Production by Region (2021-2032)
  - 1.3.3 World Semiconductor Fumed Silica Average Price by Region (2021-2032)
  - 1.3.4 North America Semiconductor Fumed Silica Production (2021-2032)
  - 1.3.5 Europe Semiconductor Fumed Silica Production (2021-2032)
  - 1.3.6 China Semiconductor Fumed Silica Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Semiconductor Fumed Silica Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Semiconductor Fumed Silica Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Semiconductor Fumed Silica Demand (2021-2032)
- 2.2 World Semiconductor Fumed Silica Consumption by Region
  - 2.2.1 World Semiconductor Fumed Silica Consumption by Region (2021-2026)
  - 2.2.2 World Semiconductor Fumed Silica Consumption Forecast by Region (2027-2032)
- 2.3 United States Semiconductor Fumed Silica Consumption (2021-2032)
- 2.4 China Semiconductor Fumed Silica Consumption (2021-2032)
- 2.5 Europe Semiconductor Fumed Silica Consumption (2021-2032)
- 2.6 Japan Semiconductor Fumed Silica Consumption (2021-2032)
- 2.7 South Korea Semiconductor Fumed Silica Consumption (2021-2032)
- 2.8 ASEAN Semiconductor Fumed Silica Consumption (2021-2032)
- 2.9 India Semiconductor Fumed Silica Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Semiconductor Fumed Silica Production Value by Manufacturer (2021-2026)
- 3.2 World Semiconductor Fumed Silica Production by Manufacturer (2021-2026)
- 3.3 World Semiconductor Fumed Silica Average Price by Manufacturer (2021-2026)
- 3.4 Semiconductor Fumed Silica Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Semiconductor Fumed Silica Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Semiconductor Fumed Silica in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Semiconductor Fumed Silica in 2025
- 3.6 Semiconductor Fumed Silica Market: Overall Company Footprint Analysis
  - 3.6.1 Semiconductor Fumed Silica Market: Region Footprint
  - 3.6.2 Semiconductor Fumed Silica Market: Company Product Type Footprint
  - 3.6.3 Semiconductor Fumed Silica 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 Fumed Silica Production Value Comparison
  - 4.1.1 United States VS China: Semiconductor Fumed Silica Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Semiconductor Fumed Silica Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Semiconductor Fumed Silica Production Comparison
  - 4.2.1 United States VS China: Semiconductor Fumed Silica Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Semiconductor Fumed Silica Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Semiconductor Fumed Silica Consumption Comparison
  - 4.3.1 United States VS China: Semiconductor Fumed Silica Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Semiconductor Fumed Silica Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Semiconductor Fumed Silica Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Semiconductor Fumed Silica Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor Fumed Silica Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semiconductor Fumed Silica Production (2021-2026)

4.5 China Based Semiconductor Fumed Silica Manufacturers and Market Share

4.5.1 China Based Semiconductor Fumed Silica Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor Fumed Silica Production Value (2021-2026)

4.5.3 China Based Manufacturers Semiconductor Fumed Silica Production (2021-2026)

4.6 Rest of World Based Semiconductor Fumed Silica Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Semiconductor Fumed Silica Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semiconductor Fumed Silica Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Semiconductor Fumed Silica Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Hydrophobic Fumed Silica

5.2.2 Hydrophilic Fumed Silica

5.3 Market Segment by Type

5.3.1 World Semiconductor Fumed Silica Production by Type (2021-2032)

5.3.2 World Semiconductor Fumed Silica Production Value by Type (2021-2032)

5.3.3 World Semiconductor Fumed Silica Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY BET SPECIFIC SURFACE AREA**

6.1 World Semiconductor Fumed Silica Market Size Overview by BET Specific Surface Area: 2021 VS 2025 VS 2032

6.2 Segment Introduction by BET Specific Surface Area

6.2.1 50?100 m<sup>2</sup>/g

6.2.2 100?300 m<sup>2</sup>/g

6.2.3 300?400 m<sup>2</sup>/g

6.2.4 Others

6.3 Market Segment by BET Specific Surface Area

6.3.1 World Semiconductor Fumed Silica Production by BET Specific Surface Area (2021-2032)

6.3.2 World Semiconductor Fumed Silica Production Value by BET Specific Surface Area (2021-2032)

6.3.3 World Semiconductor Fumed Silica Average Price by BET Specific Surface Area (2021-2032)

## **7 MARKET ANALYSIS BY PARTICLE SIZE**

7.1 World Semiconductor Fumed Silica Market Size Overview by Particle Size: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Particle Size

7.2.1 50?100 nm

7.2.2 100?300 nm

7.2.3 300?500 nm

7.2.4 Others

7.3 Market Segment by Particle Size

7.3.1 World Semiconductor Fumed Silica Production by Particle Size (2021-2032)

7.3.2 World Semiconductor Fumed Silica Production Value by Particle Size (2021-2032)

7.3.3 World Semiconductor Fumed Silica Average Price by Particle Size (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Semiconductor Fumed Silica Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 CMP Slurry

8.2.2 Solar Cell

8.2.3 Catalyst

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Semiconductor Fumed Silica Production by Application (2021-2032)

8.3.2 World Semiconductor Fumed Silica Production Value by Application (2021-2032)

### 8.3.3 World Semiconductor Fumed Silica Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 OCI

#### 9.1.1 OCI Details

#### 9.1.2 OCI Major Business

#### 9.1.3 OCI Semiconductor Fumed Silica Product and Services

#### 9.1.4 OCI Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.1.5 OCI Recent Developments/Updates

#### 9.1.6 OCI Competitive Strengths & Weaknesses

### 9.2 Evonik

#### 9.2.1 Evonik Details

#### 9.2.2 Evonik Major Business

#### 9.2.3 Evonik Semiconductor Fumed Silica Product and Services

#### 9.2.4 Evonik Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.2.5 Evonik Recent Developments/Updates

#### 9.2.6 Evonik Competitive Strengths & Weaknesses

### 9.3 Tokuyama

#### 9.3.1 Tokuyama Details

#### 9.3.2 Tokuyama Major Business

#### 9.3.3 Tokuyama Semiconductor Fumed Silica Product and Services

#### 9.3.4 Tokuyama Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 Tokuyama Recent Developments/Updates

#### 9.3.6 Tokuyama Competitive Strengths & Weaknesses

### 9.4 Cabot Corporation

#### 9.4.1 Cabot Corporation Details

#### 9.4.2 Cabot Corporation Major Business

#### 9.4.3 Cabot Corporation Semiconductor Fumed Silica Product and Services

#### 9.4.4 Cabot Corporation Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 Cabot Corporation Recent Developments/Updates

#### 9.4.6 Cabot Corporation Competitive Strengths & Weaknesses

### 9.5 Heraeus

#### 9.5.1 Heraeus Details

#### 9.5.2 Heraeus Major Business

- 9.5.3 Heraeus Semiconductor Fumed Silica Product and Services
- 9.5.4 Heraeus Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Heraeus Recent Developments/Updates
- 9.5.6 Heraeus Competitive Strengths & Weaknesses
- 9.6 Wacker
  - 9.6.1 Wacker Details
  - 9.6.2 Wacker Major Business
  - 9.6.3 Wacker Semiconductor Fumed Silica Product and Services
  - 9.6.4 Wacker Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Wacker Recent Developments/Updates
  - 9.6.6 Wacker Competitive Strengths & Weaknesses
- 9.7 Orsil
  - 9.7.1 Orsil Details
  - 9.7.2 Orsil Major Business
  - 9.7.3 Orsil Semiconductor Fumed Silica Product and Services
  - 9.7.4 Orsil Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Orsil Recent Developments/Updates
  - 9.7.6 Orsil Competitive Strengths & Weaknesses
- 9.8 Vitro Minerals
  - 9.8.1 Vitro Minerals Details
  - 9.8.2 Vitro Minerals Major Business
  - 9.8.3 Vitro Minerals Semiconductor Fumed Silica Product and Services
  - 9.8.4 Vitro Minerals Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Vitro Minerals Recent Developments/Updates
  - 9.8.6 Vitro Minerals Competitive Strengths & Weaknesses
- 9.9 Xunyu Chemical
  - 9.9.1 Xunyu Chemical Details
  - 9.9.2 Xunyu Chemical Major Business
  - 9.9.3 Xunyu Chemical Semiconductor Fumed Silica Product and Services
  - 9.9.4 Xunyu Chemical Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Xunyu Chemical Recent Developments/Updates
  - 9.9.6 Xunyu Chemical Competitive Strengths & Weaknesses
- 9.10 Hoshine Silicon
  - 9.10.1 Hoshine Silicon Details

- 9.10.2 Hoshine Silicon Major Business
- 9.10.3 Hoshine Silicon Semiconductor Fumed Silica Product and Services
- 9.10.4 Hoshine Silicon Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Hoshine Silicon Recent Developments/Updates
- 9.10.6 Hoshine Silicon Competitive Strengths & Weaknesses
- 9.11 Huifu Nanomaterial
  - 9.11.1 Huifu Nanomaterial Details
  - 9.11.2 Huifu Nanomaterial Major Business
  - 9.11.3 Huifu Nanomaterial Semiconductor Fumed Silica Product and Services
  - 9.11.4 Huifu Nanomaterial Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Huifu Nanomaterial Recent Developments/Updates
  - 9.11.6 Huifu Nanomaterial Competitive Strengths & Weaknesses
- 9.12 Fushite
  - 9.12.1 Fushite Details
  - 9.12.2 Fushite Major Business
  - 9.12.3 Fushite Semiconductor Fumed Silica Product and Services
  - 9.12.4 Fushite Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Fushite Recent Developments/Updates
  - 9.12.6 Fushite Competitive Strengths & Weaknesses
- 9.13 Sunfar Silicon
  - 9.13.1 Sunfar Silicon Details
  - 9.13.2 Sunfar Silicon Major Business
  - 9.13.3 Sunfar Silicon Semiconductor Fumed Silica Product and Services
  - 9.13.4 Sunfar Silicon Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Sunfar Silicon Recent Developments/Updates
  - 9.13.6 Sunfar Silicon Competitive Strengths & Weaknesses
- 9.14 Hungpai New
  - 9.14.1 Hungpai New Details
  - 9.14.2 Hungpai New Major Business
  - 9.14.3 Hungpai New Semiconductor Fumed Silica Product and Services
  - 9.14.4 Hungpai New Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Hungpai New Recent Developments/Updates
  - 9.14.6 Hungpai New Competitive Strengths & Weaknesses
- 9.15 Dongyue Organic Silicon

- 9.15.1 Dongyue Organic Silicon Details
- 9.15.2 Dongyue Organic Silicon Major Business
- 9.15.3 Dongyue Organic Silicon Semiconductor Fumed Silica Product and Services
- 9.15.4 Dongyue Organic Silicon Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Dongyue Organic Silicon Recent Developments/Updates
- 9.15.6 Dongyue Organic Silicon Competitive Strengths & Weaknesses
- 9.16 Changqing New Material
  - 9.16.1 Changqing New Material Details
  - 9.16.2 Changqing New Material Major Business
  - 9.16.3 Changqing New Material Semiconductor Fumed Silica Product and Services
  - 9.16.4 Changqing New Material Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Changqing New Material Recent Developments/Updates
  - 9.16.6 Changqing New Material Competitive Strengths & Weaknesses
- 9.17 Futael
  - 9.17.1 Futael Details
  - 9.17.2 Futael Major Business
  - 9.17.3 Futael Semiconductor Fumed Silica Product and Services
  - 9.17.4 Futael Semiconductor Fumed Silica Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Futael Recent Developments/Updates
  - 9.17.6 Futael Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Semiconductor Fumed Silica Industry Chain
- 10.2 Semiconductor Fumed Silica Upstream Analysis
  - 10.2.1 Semiconductor Fumed Silica Core Raw Materials
  - 10.2.2 Main Manufacturers of Semiconductor Fumed Silica Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Semiconductor Fumed Silica Production Mode
- 10.6 Semiconductor Fumed Silica Procurement Model
- 10.7 Semiconductor Fumed Silica Industry Sales Model and Sales Channels
  - 10.7.1 Semiconductor Fumed Silica Sales Model
  - 10.7.2 Semiconductor Fumed Silica Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Semiconductor Fumed Silica Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semiconductor Fumed Silica Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semiconductor Fumed Silica Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semiconductor Fumed Silica Production Value Market Share by Region (2021-2026)

Table 5. World Semiconductor Fumed Silica Production Value Market Share by Region (2027-2032)

Table 6. World Semiconductor Fumed Silica Production by Region (2021-2026) & (Kilotons)

Table 7. World Semiconductor Fumed Silica Production by Region (2027-2032) & (Kilotons)

Table 8. World Semiconductor Fumed Silica Production Market Share by Region (2021-2026)

Table 9. World Semiconductor Fumed Silica Production Market Share by Region (2027-2032)

Table 10. World Semiconductor Fumed Silica Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Semiconductor Fumed Silica Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Semiconductor Fumed Silica Major Market Trends

Table 13. World Semiconductor Fumed Silica Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Semiconductor Fumed Silica Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Semiconductor Fumed Silica Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Semiconductor Fumed Silica Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Fumed Silica Producers in 2025

Table 18. World Semiconductor Fumed Silica Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Semiconductor Fumed Silica Producers in 2025

Table 20. World Semiconductor Fumed Silica Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Semiconductor Fumed Silica Company Evaluation Quadrant

Table 22. World Semiconductor Fumed Silica Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor Fumed Silica Production Site of Key Manufacturer

Table 24. Semiconductor Fumed Silica Market: Company Product Type Footprint

Table 25. Semiconductor Fumed Silica Market: Company Product Application Footprint

Table 26. Semiconductor Fumed Silica Competitive Factors

Table 27. Semiconductor Fumed Silica New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Fumed Silica Mergers & Acquisitions Activity

Table 29. United States VS China Semiconductor Fumed Silica Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Semiconductor Fumed Silica Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Semiconductor Fumed Silica Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Semiconductor Fumed Silica Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor Fumed Silica Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor Fumed Silica Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor Fumed Silica Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Semiconductor Fumed Silica Production Market Share (2021-2026)

Table 37. China Based Semiconductor Fumed Silica Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor Fumed Silica Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor Fumed Silica Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor Fumed Silica Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Semiconductor Fumed Silica Production Market

Share (2021-2026)

Table 42. Rest of World Based Semiconductor Fumed Silica Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Semiconductor Fumed Silica Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Semiconductor Fumed Silica Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor Fumed Silica Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Semiconductor Fumed Silica Production Market Share (2021-2026)

Table 47. World Semiconductor Fumed Silica Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor Fumed Silica Production by Type (2021-2026) & (Kilotons)

Table 49. World Semiconductor Fumed Silica Production by Type (2027-2032) & (Kilotons)

Table 50. World Semiconductor Fumed Silica Production Value by Type (2021-2026) & (USD Million)

Table 51. World Semiconductor Fumed Silica Production Value by Type (2027-2032) & (USD Million)

Table 52. World Semiconductor Fumed Silica Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Semiconductor Fumed Silica Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Semiconductor Fumed Silica Production Value by BET Specific Surface Area, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor Fumed Silica Production by BET Specific Surface Area (2021-2026) & (Kilotons)

Table 56. World Semiconductor Fumed Silica Production by BET Specific Surface Area (2027-2032) & (Kilotons)

Table 57. World Semiconductor Fumed Silica Production Value by BET Specific Surface Area (2021-2026) & (USD Million)

Table 58. World Semiconductor Fumed Silica Production Value by BET Specific Surface Area (2027-2032) & (USD Million)

Table 59. World Semiconductor Fumed Silica Average Price by BET Specific Surface Area (2021-2026) & (US\$/Ton)

Table 60. World Semiconductor Fumed Silica Average Price by BET Specific Surface Area (2027-2032) & (US\$/Ton)

- Table 61. World Semiconductor Fumed Silica Production Value by Particle Size, (USD Million), 2021 & 2025 & 2032
- Table 62. World Semiconductor Fumed Silica Production by Particle Size (2021-2026) & (Kilotons)
- Table 63. World Semiconductor Fumed Silica Production by Particle Size (2027-2032) & (Kilotons)
- Table 64. World Semiconductor Fumed Silica Production Value by Particle Size (2021-2026) & (USD Million)
- Table 65. World Semiconductor Fumed Silica Production Value by Particle Size (2027-2032) & (USD Million)
- Table 66. World Semiconductor Fumed Silica Average Price by Particle Size (2021-2026) & (US\$/Ton)
- Table 67. World Semiconductor Fumed Silica Average Price by Particle Size (2027-2032) & (US\$/Ton)
- Table 68. World Semiconductor Fumed Silica Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Semiconductor Fumed Silica Production by Application (2021-2026) & (Kilotons)
- Table 70. World Semiconductor Fumed Silica Production by Application (2027-2032) & (Kilotons)
- Table 71. World Semiconductor Fumed Silica Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Semiconductor Fumed Silica Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Semiconductor Fumed Silica Average Price by Application (2021-2026) & (US\$/Ton)
- Table 74. World Semiconductor Fumed Silica Average Price by Application (2027-2032) & (US\$/Ton)
- Table 75. OCI Basic Information, Manufacturing Base and Competitors
- Table 76. OCI Major Business
- Table 77. OCI Semiconductor Fumed Silica Product and Services
- Table 78. OCI Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. OCI Recent Developments/Updates
- Table 80. OCI Competitive Strengths & Weaknesses
- Table 81. Evonik Basic Information, Manufacturing Base and Competitors
- Table 82. Evonik Major Business
- Table 83. Evonik Semiconductor Fumed Silica Product and Services
- Table 84. Evonik Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Evonik Recent Developments/Updates

Table 86. Evonik Competitive Strengths & Weaknesses

Table 87. Tokuyama Basic Information, Manufacturing Base and Competitors

Table 88. Tokuyama Major Business

Table 89. Tokuyama Semiconductor Fumed Silica Product and Services

Table 90. Tokuyama Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Tokuyama Recent Developments/Updates

Table 92. Tokuyama Competitive Strengths & Weaknesses

Table 93. Cabot Corporation Basic Information, Manufacturing Base and Competitors

Table 94. Cabot Corporation Major Business

Table 95. Cabot Corporation Semiconductor Fumed Silica Product and Services

Table 96. Cabot Corporation Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Cabot Corporation Recent Developments/Updates

Table 98. Cabot Corporation Competitive Strengths & Weaknesses

Table 99. Heraeus Basic Information, Manufacturing Base and Competitors

Table 100. Heraeus Major Business

Table 101. Heraeus Semiconductor Fumed Silica Product and Services

Table 102. Heraeus Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Heraeus Recent Developments/Updates

Table 104. Heraeus Competitive Strengths & Weaknesses

Table 105. Wacker Basic Information, Manufacturing Base and Competitors

Table 106. Wacker Major Business

Table 107. Wacker Semiconductor Fumed Silica Product and Services

Table 108. Wacker Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Wacker Recent Developments/Updates

Table 110. Wacker Competitive Strengths & Weaknesses

Table 111. Orsil Basic Information, Manufacturing Base and Competitors

Table 112. Orsil Major Business

Table 113. Orsil Semiconductor Fumed Silica Product and Services

Table 114. Orsil Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 115. Orisil Recent Developments/Updates
- Table 116. Orisil Competitive Strengths & Weaknesses
- Table 117. Vitro Minerals Basic Information, Manufacturing Base and Competitors
- Table 118. Vitro Minerals Major Business
- Table 119. Vitro Minerals Semiconductor Fumed Silica Product and Services
- Table 120. Vitro Minerals Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Vitro Minerals Recent Developments/Updates
- Table 122. Vitro Minerals Competitive Strengths & Weaknesses
- Table 123. Xunyu Chemical Basic Information, Manufacturing Base and Competitors
- Table 124. Xunyu Chemical Major Business
- Table 125. Xunyu Chemical Semiconductor Fumed Silica Product and Services
- Table 126. Xunyu Chemical Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Xunyu Chemical Recent Developments/Updates
- Table 128. Xunyu Chemical Competitive Strengths & Weaknesses
- Table 129. Hoshine Silicon Basic Information, Manufacturing Base and Competitors
- Table 130. Hoshine Silicon Major Business
- Table 131. Hoshine Silicon Semiconductor Fumed Silica Product and Services
- Table 132. Hoshine Silicon Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Hoshine Silicon Recent Developments/Updates
- Table 134. Hoshine Silicon Competitive Strengths & Weaknesses
- Table 135. Huifu Nanomaterial Basic Information, Manufacturing Base and Competitors
- Table 136. Huifu Nanomaterial Major Business
- Table 137. Huifu Nanomaterial Semiconductor Fumed Silica Product and Services
- Table 138. Huifu Nanomaterial Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Huifu Nanomaterial Recent Developments/Updates
- Table 140. Huifu Nanomaterial Competitive Strengths & Weaknesses
- Table 141. Fushite Basic Information, Manufacturing Base and Competitors
- Table 142. Fushite Major Business
- Table 143. Fushite Semiconductor Fumed Silica Product and Services
- Table 144. Fushite Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 145. Fushite Recent Developments/Updates
- Table 146. Fushite Competitive Strengths & Weaknesses
- Table 147. Sunfar Silicon Basic Information, Manufacturing Base and Competitors
- Table 148. Sunfar Silicon Major Business
- Table 149. Sunfar Silicon Semiconductor Fumed Silica Product and Services
- Table 150. Sunfar Silicon Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Sunfar Silicon Recent Developments/Updates
- Table 152. Sunfar Silicon Competitive Strengths & Weaknesses
- Table 153. Hungpai New Basic Information, Manufacturing Base and Competitors
- Table 154. Hungpai New Major Business
- Table 155. Hungpai New Semiconductor Fumed Silica Product and Services
- Table 156. Hungpai New Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Hungpai New Recent Developments/Updates
- Table 158. Hungpai New Competitive Strengths & Weaknesses
- Table 159. Dongyue Organic Silicon Basic Information, Manufacturing Base and Competitors
- Table 160. Dongyue Organic Silicon Major Business
- Table 161. Dongyue Organic Silicon Semiconductor Fumed Silica Product and Services
- Table 162. Dongyue Organic Silicon Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Dongyue Organic Silicon Recent Developments/Updates
- Table 164. Dongyue Organic Silicon Competitive Strengths & Weaknesses
- Table 165. Changqing New Material Basic Information, Manufacturing Base and Competitors
- Table 166. Changqing New Material Major Business
- Table 167. Changqing New Material Semiconductor Fumed Silica Product and Services
- Table 168. Changqing New Material Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Changqing New Material Recent Developments/Updates
- Table 170. Changqing New Material Competitive Strengths & Weaknesses
- Table 171. Futael Basic Information, Manufacturing Base and Competitors
- Table 172. Futael Major Business
- Table 173. Futael Semiconductor Fumed Silica Product and Services

Table 174. Futael Semiconductor Fumed Silica Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Futael Recent Developments/Updates

Table 176. Futael Competitive Strengths & Weaknesses

Table 177. Global Key Players of Semiconductor Fumed Silica Upstream (Raw Materials)

Table 178. Global Semiconductor Fumed Silica Typical Customers

Table 179. Semiconductor Fumed Silica Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Semiconductor Fumed Silica Picture

Figure 2. World Semiconductor Fumed Silica Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semiconductor Fumed Silica Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semiconductor Fumed Silica Production (2021-2032) & (Kilotons)

Figure 5. World Semiconductor Fumed Silica Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Semiconductor Fumed Silica Production Value Market Share by Region (2021-2032)

Figure 7. World Semiconductor Fumed Silica Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor Fumed Silica Production (2021-2032) & (Kilotons)

Figure 9. Europe Semiconductor Fumed Silica Production (2021-2032) & (Kilotons)

Figure 10. China Semiconductor Fumed Silica Production (2021-2032) & (Kilotons)

Figure 11. Semiconductor Fumed Silica Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 14. World Semiconductor Fumed Silica Consumption Market Share by Region (2021-2032)

Figure 15. United States Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 16. China Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 17. Europe Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 18. Japan Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 19. South Korea Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 20. ASEAN Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 21. India Semiconductor Fumed Silica Consumption (2021-2032) & (Kilotons)

Figure 22. Producer Shipments of Semiconductor Fumed Silica by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Semiconductor Fumed Silica Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Semiconductor Fumed Silica Markets in 2025

Figure 25. United States VS China: Semiconductor Fumed Silica Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Semiconductor Fumed Silica Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Semiconductor Fumed Silica Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Semiconductor Fumed Silica Production Market Share 2025

Figure 29. China Based Manufacturers Semiconductor Fumed Silica Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Semiconductor Fumed Silica Production Market Share 2025

Figure 31. World Semiconductor Fumed Silica Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Semiconductor Fumed Silica Production Value Market Share by Type in 2025

Figure 33. Hydrophobic Fumed Silica

Figure 34. Hydrophilic Fumed Silica

Figure 35. World Semiconductor Fumed Silica Production Market Share by Type (2021-2032)

Figure 36. World Semiconductor Fumed Silica Production Value Market Share by Type (2021-2032)

Figure 37. World Semiconductor Fumed Silica Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World Semiconductor Fumed Silica Production Value by BET Specific Surface Area, (USD Million), 2021 & 2025 & 2032

Figure 39. World Semiconductor Fumed Silica Production Value Market Share by BET Specific Surface Area in 2025

Figure 40. 50?100 m<sup>2</sup>/g

Figure 41. 100?300 m<sup>2</sup>/g

Figure 42. 300?400 m<sup>2</sup>/g

Figure 43. Others

Figure 44. World Semiconductor Fumed Silica Production Market Share by BET Specific Surface Area (2021-2032)

Figure 45. World Semiconductor Fumed Silica Production Value Market Share by BET Specific Surface Area (2021-2032)

Figure 46. World Semiconductor Fumed Silica Average Price by BET Specific Surface Area (2021-2032) & (US\$/Ton)

Figure 47. World Semiconductor Fumed Silica Production Value by Particle Size, (USD

Million), 2021 & 2025 & 2032

Figure 48. World Semiconductor Fumed Silica Production Value Market Share by Particle Size in 2025

Figure 49. 50?100 nm

Figure 50. 100?300 nm

Figure 51. 300?500 nm

Figure 52. Others

Figure 53. World Semiconductor Fumed Silica Production Market Share by Particle Size (2021-2032)

Figure 54. World Semiconductor Fumed Silica Production Value Market Share by Particle Size (2021-2032)

Figure 55. World Semiconductor Fumed Silica Average Price by Particle Size (2021-2032) & (US\$/Ton)

Figure 56. World Semiconductor Fumed Silica Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Semiconductor Fumed Silica Production Value Market Share by Application in 2025

Figure 58. CMP Slurry

Figure 59. Solar Cell

Figure 60. Catalyst

Figure 61. Other

Figure 62. World Semiconductor Fumed Silica Production Market Share by Application (2021-2032)

Figure 63. World Semiconductor Fumed Silica Production Value Market Share by Application (2021-2032)

Figure 64. World Semiconductor Fumed Silica Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Semiconductor Fumed Silica Industry Chain

Figure 66. Semiconductor Fumed Silica Procurement Model

Figure 67. Semiconductor Fumed Silica Sales Model

Figure 68. Semiconductor Fumed Silica Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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