

Global 2D Semiconductors Market Research Report 2026(Status and Outlook)

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Abstracts

2D semiconductors are a class of materials with a thickness of only a few atomic layers, exhibiting unique electronic, optical, and mechanical properties. Unlike conventional bulk semiconductors such as silicon, 2D semiconductors have a layered structure where the in-plane atoms are strongly bonded, while the out-of-plane interactions are weak van der Waals forces. Examples include transition metal dichalcogenides (TMDs) like MoS₂ (molybdenum disulfide) and WSe₂ (tungsten diselenide). These materials possess a direct bandgap at monolayer thickness, making them highly attractive for applications in next-generation nanoelectronics, optoelectronics, flexible devices, and quantum computing.

The global 2D Semiconductors market size was estimated at USD 1021.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 2D Semiconductors 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 2D

Semiconductors 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 2D Semiconductors market.

Global 2D Semiconductors 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

Saint-Gobain
Momentive
3M company
H.C.Starck
UK Abrasives
Denka
Henze
Showa Denko Group
Boron Compounds
Xinfukang
Qingzhou Fangyuan
DCEI
Zibo Jonye Ceramic Technologies
YingKou Liaobin

QingZhouMaTeKeChang Materials
Baoding Pengda
DANGDONG RIJIN
Eno High-Tech Material
QingZhou Longjitetao
Liaoning Pengda Technology

Market Segmentation (by Type)

Graphene
Hexagonal Boron Nitride
Transition Metal Dichalcogenides
Others

Market Segmentation (by Application)

Electronic Equipment
Solar Battery
Other

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 2D Semiconductors Market
Overview of the regional outlook of the 2D Semiconductors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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 2D Semiconductors 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 2D Semiconductors, 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

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of 2D Semiconductors
- 1.2 Key Market Segments
 - 1.2.1 2D Semiconductors Segment by Type
 - 1.2.2 2D Semiconductors 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 2D SEMICONDUCTORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global 2D Semiconductors Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global 2D Semiconductors Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 2D SEMICONDUCTORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global 2D Semiconductors Product Life Cycle
- 3.3 Global 2D Semiconductors Sales by Manufacturers (2020-2025)
- 3.4 Global 2D Semiconductors Revenue Market Share by Manufacturers (2020-2025)
- 3.5 2D Semiconductors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global 2D Semiconductors Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 2D Semiconductors Market Competitive Situation and Trends
 - 3.8.1 2D Semiconductors Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest 2D Semiconductors Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 2D SEMICONDUCTORS INDUSTRY CHAIN ANALYSIS

- 4.1 2D Semiconductors 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 2D SEMICONDUCTORS 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 2D Semiconductors 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 2D Semiconductors Market
- 5.7 ESG Ratings of Leading Companies

6 2D SEMICONDUCTORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global 2D Semiconductors Sales Market Share by Type (2020-2025)
- 6.3 Global 2D Semiconductors Market Size by Type (2020-2025)
- 6.4 Global 2D Semiconductors Price by Type (2020-2025)

7 2D SEMICONDUCTORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 2D Semiconductors Market Sales by Application (2020-2025)
- 7.3 Global 2D Semiconductors Market Size (M USD) by Application (2020-2025)

7.4 Global 2D Semiconductors Sales Growth Rate by Application (2020-2025)

8 2D SEMICONDUCTORS MARKET SALES BY REGION

8.1 Global 2D Semiconductors Sales by Region

8.1.1 Global 2D Semiconductors Sales by Region

8.1.2 Global 2D Semiconductors Sales Market Share by Region

8.2 Global 2D Semiconductors Market Size by Region

8.2.1 Global 2D Semiconductors Market Size by Region

8.2.2 Global 2D Semiconductors Market Size by Region

8.3 North America

8.3.1 North America 2D Semiconductors Sales by Country

8.3.2 North America 2D Semiconductors 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 2D Semiconductors Sales by Country

8.4.2 Europe 2D Semiconductors 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 2D Semiconductors Sales by Region

8.5.2 Asia Pacific 2D Semiconductors 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 2D Semiconductors Sales by Country

8.6.2 South America 2D Semiconductors 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 2D Semiconductors Sales by Region
- 8.7.2 Middle East and Africa 2D Semiconductors 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 2D SEMICONDUCTORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of 2D Semiconductors by Region(2020-2025)
- 9.2 Global 2D Semiconductors Revenue Market Share by Region (2020-2025)
- 9.3 Global 2D Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America 2D Semiconductors Production
 - 9.4.1 North America 2D Semiconductors Production Growth Rate (2020-2025)
 - 9.4.2 North America 2D Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe 2D Semiconductors Production
 - 9.5.1 Europe 2D Semiconductors Production Growth Rate (2020-2025)
 - 9.5.2 Europe 2D Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan 2D Semiconductors Production (2020-2025)
 - 9.6.1 Japan 2D Semiconductors Production Growth Rate (2020-2025)
 - 9.6.2 Japan 2D Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China 2D Semiconductors Production (2020-2025)
 - 9.7.1 China 2D Semiconductors Production Growth Rate (2020-2025)
 - 9.7.2 China 2D Semiconductors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Saint-Gobain
 - 10.1.1 Saint-Gobain Basic Information
 - 10.1.2 Saint-Gobain 2D Semiconductors Product Overview
 - 10.1.3 Saint-Gobain 2D Semiconductors Product Market Performance
 - 10.1.4 Saint-Gobain Business Overview
 - 10.1.5 Saint-Gobain SWOT Analysis

- 10.1.6 Saint-Gobain Recent Developments
- 10.2 Momentive
 - 10.2.1 Momentive Basic Information
 - 10.2.2 Momentive 2D Semiconductors Product Overview
 - 10.2.3 Momentive 2D Semiconductors Product Market Performance
 - 10.2.4 Momentive Business Overview
 - 10.2.5 Momentive SWOT Analysis
 - 10.2.6 Momentive Recent Developments
- 10.3 3M company
 - 10.3.1 3M company Basic Information
 - 10.3.2 3M company 2D Semiconductors Product Overview
 - 10.3.3 3M company 2D Semiconductors Product Market Performance
 - 10.3.4 3M company Business Overview
 - 10.3.5 3M company SWOT Analysis
 - 10.3.6 3M company Recent Developments
- 10.4 H.C.Starck
 - 10.4.1 H.C.Starck Basic Information
 - 10.4.2 H.C.Starck 2D Semiconductors Product Overview
 - 10.4.3 H.C.Starck 2D Semiconductors Product Market Performance
 - 10.4.4 H.C.Starck Business Overview
 - 10.4.5 H.C.Starck Recent Developments
- 10.5 UK Abrasives
 - 10.5.1 UK Abrasives Basic Information
 - 10.5.2 UK Abrasives 2D Semiconductors Product Overview
 - 10.5.3 UK Abrasives 2D Semiconductors Product Market Performance
 - 10.5.4 UK Abrasives Business Overview
 - 10.5.5 UK Abrasives Recent Developments
- 10.6 Denka
 - 10.6.1 Denka Basic Information
 - 10.6.2 Denka 2D Semiconductors Product Overview
 - 10.6.3 Denka 2D Semiconductors Product Market Performance
 - 10.6.4 Denka Business Overview
 - 10.6.5 Denka Recent Developments
- 10.7 Henze
 - 10.7.1 Henze Basic Information
 - 10.7.2 Henze 2D Semiconductors Product Overview
 - 10.7.3 Henze 2D Semiconductors Product Market Performance
 - 10.7.4 Henze Business Overview
 - 10.7.5 Henze Recent Developments

10.8 Showa Denko Group

10.8.1 Showa Denko Group Basic Information

10.8.2 Showa Denko Group 2D Semiconductors Product Overview

10.8.3 Showa Denko Group 2D Semiconductors Product Market Performance

10.8.4 Showa Denko Group Business Overview

10.8.5 Showa Denko Group Recent Developments

10.9 Boron Compounds

10.9.1 Boron Compounds Basic Information

10.9.2 Boron Compounds 2D Semiconductors Product Overview

10.9.3 Boron Compounds 2D Semiconductors Product Market Performance

10.9.4 Boron Compounds Business Overview

10.9.5 Boron Compounds Recent Developments

10.10 Xinfukang

10.10.1 Xinfukang Basic Information

10.10.2 Xinfukang 2D Semiconductors Product Overview

10.10.3 Xinfukang 2D Semiconductors Product Market Performance

10.10.4 Xinfukang Business Overview

10.10.5 Xinfukang Recent Developments

10.11 Qingzhou Fangyuan

10.11.1 Qingzhou Fangyuan Basic Information

10.11.2 Qingzhou Fangyuan 2D Semiconductors Product Overview

10.11.3 Qingzhou Fangyuan 2D Semiconductors Product Market Performance

10.11.4 Qingzhou Fangyuan Business Overview

10.11.5 Qingzhou Fangyuan Recent Developments

10.12 DCEI

10.12.1 DCEI Basic Information

10.12.2 DCEI 2D Semiconductors Product Overview

10.12.3 DCEI 2D Semiconductors Product Market Performance

10.12.4 DCEI Business Overview

10.12.5 DCEI Recent Developments

10.13 Zibo Jonye Ceramic Technologies

10.13.1 Zibo Jonye Ceramic Technologies Basic Information

10.13.2 Zibo Jonye Ceramic Technologies 2D Semiconductors Product Overview

10.13.3 Zibo Jonye Ceramic Technologies 2D Semiconductors Product Market

Performance

10.13.4 Zibo Jonye Ceramic Technologies Business Overview

10.13.5 Zibo Jonye Ceramic Technologies Recent Developments

10.14 YingKou Liaobin

10.14.1 YingKou Liaobin Basic Information

- 10.14.2 YingKou Liaobin 2D Semiconductors Product Overview
- 10.14.3 YingKou Liaobin 2D Semiconductors Product Market Performance
- 10.14.4 YingKou Liaobin Business Overview
- 10.14.5 YingKou Liaobin Recent Developments
- 10.15 QingZhouMaTeKeChang Materials
 - 10.15.1 QingZhouMaTeKeChang Materials Basic Information
 - 10.15.2 QingZhouMaTeKeChang Materials 2D Semiconductors Product Overview
 - 10.15.3 QingZhouMaTeKeChang Materials 2D Semiconductors Product Market Performance
 - 10.15.4 QingZhouMaTeKeChang Materials Business Overview
 - 10.15.5 QingZhouMaTeKeChang Materials Recent Developments
- 10.16 Baoding Pengda
 - 10.16.1 Baoding Pengda Basic Information
 - 10.16.2 Baoding Pengda 2D Semiconductors Product Overview
 - 10.16.3 Baoding Pengda 2D Semiconductors Product Market Performance
 - 10.16.4 Baoding Pengda Business Overview
 - 10.16.5 Baoding Pengda Recent Developments
- 10.17 DANGDONG RIJIN
 - 10.17.1 DANGDONG RIJIN Basic Information
 - 10.17.2 DANGDONG RIJIN 2D Semiconductors Product Overview
 - 10.17.3 DANGDONG RIJIN 2D Semiconductors Product Market Performance
 - 10.17.4 DANGDONG RIJIN Business Overview
 - 10.17.5 DANGDONG RIJIN Recent Developments
- 10.18 Eno High-Tech Material
 - 10.18.1 Eno High-Tech Material Basic Information
 - 10.18.2 Eno High-Tech Material 2D Semiconductors Product Overview
 - 10.18.3 Eno High-Tech Material 2D Semiconductors Product Market Performance
 - 10.18.4 Eno High-Tech Material Business Overview
 - 10.18.5 Eno High-Tech Material Recent Developments
- 10.19 QingZhou Longjitetao
 - 10.19.1 QingZhou Longjitetao Basic Information
 - 10.19.2 QingZhou Longjitetao 2D Semiconductors Product Overview
 - 10.19.3 QingZhou Longjitetao 2D Semiconductors Product Market Performance
 - 10.19.4 QingZhou Longjitetao Business Overview
 - 10.19.5 QingZhou Longjitetao Recent Developments
- 10.20 Liaoning Pengda Technology
 - 10.20.1 Liaoning Pengda Technology Basic Information
 - 10.20.2 Liaoning Pengda Technology 2D Semiconductors Product Overview
 - 10.20.3 Liaoning Pengda Technology 2D Semiconductors Product Market

Performance

10.20.4 Liaoning Pengda Technology Business Overview

10.20.5 Liaoning Pengda Technology Recent Developments

11 2D SEMICONDUCTORS MARKET FORECAST BY REGION

11.1 Global 2D Semiconductors Market Size Forecast

11.2 Global 2D Semiconductors Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe 2D Semiconductors Market Size Forecast by Country

11.2.3 Asia Pacific 2D Semiconductors Market Size Forecast by Region

11.2.4 South America 2D Semiconductors Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of 2D Semiconductors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global 2D Semiconductors Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of 2D Semiconductors by Type (2026-2035)

12.1.2 Global 2D Semiconductors Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of 2D Semiconductors by Type (2026-2035)

12.2 Global 2D Semiconductors Market Forecast by Application (2026-2035)

12.2.1 Global 2D Semiconductors Sales (K MT) Forecast by Application

12.2.2 Global 2D Semiconductors Market Size (M USD) Forecast by Application (2026-2035)

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. Global 2D Semiconductors Market Size by Type (M USD)
- Table 4. Global 2D Semiconductors Market Size by Application
- Table 5. 2D Semiconductors Market Size Comparison by Region (M USD)
- Table 6. Global 2D Semiconductors Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global 2D Semiconductors Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global 2D Semiconductors Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global 2D Semiconductors Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in 2D Semiconductors as of 2025)
- Table 11. Global Market 2D Semiconductors Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global 2D Semiconductors Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. 2D Semiconductors Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global 2D Semiconductors Sales by Type (K MT)
- Table 27. Global 2D Semiconductors Market Size by Type (M USD)
- Table 28. Global 2D Semiconductors Sales (K MT) by Type (2020-2025)
- Table 29. Global 2D Semiconductors Sales Market Share by Type (2020-2025)
- Table 30. Global 2D Semiconductors Market Size (M USD) by Type (2020-2025)
- Table 31. Global 2D Semiconductors Market Share by Type (2020-2025)

- Table 32. Global 2D Semiconductors Price (USD/KG) by Type (2020-2025)
- Table 33. Global 2D Semiconductors Sales (K MT) by Application
- Table 34. Global 2D Semiconductors Market Size by Application
- Table 35. Global 2D Semiconductors Sales by Application (2020-2025) & (K MT)
- Table 36. Global 2D Semiconductors Sales Market Share by Application (2020-2025)
- Table 37. Global 2D Semiconductors Market Size by Application (2020-2025) & (M USD)
- Table 38. Global 2D Semiconductors Market Share by Application (2020-2025)
- Table 39. Global 2D Semiconductors Sales Growth Rate by Application (2020-2025)
- Table 40. Global 2D Semiconductors Sales by Region (2020-2025) & (K MT)
- Table 41. Global 2D Semiconductors Sales Market Share by Region (2020-2025)
- Table 42. Global 2D Semiconductors Market Size by Region (2020-2025) & (M USD)
- Table 43. Global 2D Semiconductors Market Size by Region (2020-2025)
- Table 44. North America 2D Semiconductors Sales by Country (2020-2025) & (K MT)
- Table 45. North America 2D Semiconductors Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe 2D Semiconductors Sales by Country (2020-2025) & (K MT)
- Table 47. Europe 2D Semiconductors Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific 2D Semiconductors Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific 2D Semiconductors Market Size by Region (2020-2025) & (M USD)
- Table 50. South America 2D Semiconductors Sales by Country (2020-2025) & (K MT)
- Table 51. South America 2D Semiconductors Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa 2D Semiconductors Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa 2D Semiconductors Market Size by Region (2020-2025) & (M USD)
- Table 54. Global 2D Semiconductors Production (K MT) by Region(2020-2025)
- Table 55. Global 2D Semiconductors Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global 2D Semiconductors Revenue Market Share by Region (2020-2025)
- Table 57. Global 2D Semiconductors Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America 2D Semiconductors Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe 2D Semiconductors Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan 2D Semiconductors Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China 2D Semiconductors Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Saint-Gobain Basic Information

Table 63. Saint-Gobain 2D Semiconductors Product Overview

Table 64. Saint-Gobain 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Saint-Gobain Business Overview

Table 66. Saint-Gobain SWOT Analysis

Table 67. Saint-Gobain Recent Developments

Table 68. Momentive Basic Information

Table 69. Momentive 2D Semiconductors Product Overview

Table 70. Momentive 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Momentive Business Overview

Table 72. Momentive SWOT Analysis

Table 73. Momentive Recent Developments

Table 74. 3M company Basic Information

Table 75. 3M company 2D Semiconductors Product Overview

Table 76. 3M company 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. 3M company Business Overview

Table 78. 3M company SWOT Analysis

Table 79. 3M company Recent Developments

Table 80. H.C.Starck Basic Information

Table 81. H.C.Starck 2D Semiconductors Product Overview

Table 82. H.C.Starck 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. H.C.Starck Business Overview

Table 84. H.C.Starck Recent Developments

Table 85. UK Abrasives Basic Information

Table 86. UK Abrasives 2D Semiconductors Product Overview

Table 87. UK Abrasives 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. UK Abrasives Business Overview

Table 89. UK Abrasives Recent Developments

Table 90. Denka Basic Information

Table 91. Denka 2D Semiconductors Product Overview

Table 92. Denka 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

- Table 93. Denka Business Overview
- Table 94. Denka Recent Developments
- Table 95. Henze Basic Information
- Table 96. Henze 2D Semiconductors Product Overview
- Table 97. Henze 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. Henze Business Overview
- Table 99. Henze Recent Developments
- Table 100. Showa Denko Group Basic Information
- Table 101. Showa Denko Group 2D Semiconductors Product Overview
- Table 102. Showa Denko Group 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Showa Denko Group Business Overview
- Table 104. Showa Denko Group Recent Developments
- Table 105. Boron Compounds Basic Information
- Table 106. Boron Compounds 2D Semiconductors Product Overview
- Table 107. Boron Compounds 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. Boron Compounds Business Overview
- Table 109. Boron Compounds Recent Developments
- Table 110. Xinfukang Basic Information
- Table 111. Xinfukang 2D Semiconductors Product Overview
- Table 112. Xinfukang 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. Xinfukang Business Overview
- Table 114. Xinfukang Recent Developments
- Table 115. Qingzhou Fangyuan Basic Information
- Table 116. Qingzhou Fangyuan 2D Semiconductors Product Overview
- Table 117. Qingzhou Fangyuan 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. Qingzhou Fangyuan Business Overview
- Table 119. Qingzhou Fangyuan Recent Developments
- Table 120. DCEI Basic Information
- Table 121. DCEI 2D Semiconductors Product Overview
- Table 122. DCEI 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 123. DCEI Business Overview
- Table 124. DCEI Recent Developments
- Table 125. Zibo Jonye Ceramic Technologies Basic Information

- Table 126. Zibo Jonye Ceramic Technologies 2D Semiconductors Product Overview
- Table 127. Zibo Jonye Ceramic Technologies 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 128. Zibo Jonye Ceramic Technologies Business Overview
- Table 129. Zibo Jonye Ceramic Technologies Recent Developments
- Table 130. YingKou Liaobin Basic Information
- Table 131. YingKou Liaobin 2D Semiconductors Product Overview
- Table 132. YingKou Liaobin 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 133. YingKou Liaobin Business Overview
- Table 134. YingKou Liaobin Recent Developments
- Table 135. QingZhouMaTeKeChang Materials Basic Information
- Table 136. QingZhouMaTeKeChang Materials 2D Semiconductors Product Overview
- Table 137. QingZhouMaTeKeChang Materials 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 138. QingZhouMaTeKeChang Materials Business Overview
- Table 139. QingZhouMaTeKeChang Materials Recent Developments
- Table 140. Baoding Pengda Basic Information
- Table 141. Baoding Pengda 2D Semiconductors Product Overview
- Table 142. Baoding Pengda 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 143. Baoding Pengda Business Overview
- Table 144. Baoding Pengda Recent Developments
- Table 145. DANGDONG RIJIN Basic Information
- Table 146. DANGDONG RIJIN 2D Semiconductors Product Overview
- Table 147. DANGDONG RIJIN 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 148. DANGDONG RIJIN Business Overview
- Table 149. DANGDONG RIJIN Recent Developments
- Table 150. Eno High-Tech Material Basic Information
- Table 151. Eno High-Tech Material 2D Semiconductors Product Overview
- Table 152. Eno High-Tech Material 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 153. Eno High-Tech Material Business Overview
- Table 154. Eno High-Tech Material Recent Developments
- Table 155. QingZhou Longjitetao Basic Information
- Table 156. QingZhou Longjitetao 2D Semiconductors Product Overview
- Table 157. QingZhou Longjitetao 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

- Table 158. QingZhou Longjitetao Business Overview
- Table 159. QingZhou Longjitetao Recent Developments
- Table 160. Liaoning Pengda Technology Basic Information
- Table 161. Liaoning Pengda Technology 2D Semiconductors Product Overview
- Table 162. Liaoning Pengda Technology 2D Semiconductors Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 163. Liaoning Pengda Technology Business Overview
- Table 164. Liaoning Pengda Technology Recent Developments
- Table 165. Global 2D Semiconductors Sales Forecast by Region (2026-2035) & (K MT)
- Table 166. Global 2D Semiconductors Market Size Forecast by Region (2026-2035) & (M USD)
- Table 167. North America 2D Semiconductors Sales Forecast by Country (2026-2035) & (K MT)
- Table 168. North America 2D Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 169. Europe 2D Semiconductors Sales Forecast by Country (2026-2035) & (K MT)
- Table 170. Europe 2D Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 171. Asia Pacific 2D Semiconductors Sales Forecast by Region (2026-2035) & (K MT)
- Table 172. Asia Pacific 2D Semiconductors Market Size Forecast by Region (2026-2035) & (M USD)
- Table 173. South America 2D Semiconductors Sales Forecast by Country (2026-2035) & (K MT)
- Table 174. South America 2D Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 175. Middle East and Africa 2D Semiconductors Sales Forecast by Country (2026-2035) & (Units)
- Table 176. Middle East and Africa 2D Semiconductors Market Size Forecast by Country (2026-2035) & (M USD)
- Table 177. Global 2D Semiconductors Sales Forecast by Type (2026-2035) & (K MT)
- Table 178. Global 2D Semiconductors Market Size Forecast by Type (2026-2035) & (M USD)
- Table 179. Global 2D Semiconductors Price Forecast by Type (2026-2035) & (USD/KG)
- Table 180. Global 2D Semiconductors Sales (K MT) Forecast by Application (2026-2035)
- Table 181. Global 2D Semiconductors Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of 2D Semiconductors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global 2D Semiconductors Market Size (M USD), 2025-2035
- Figure 5. Global 2D Semiconductors Market Size (M USD) (2020-2035)
- Figure 6. Global 2D Semiconductors Sales (K MT) & (2020-2035)
- 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. 2D Semiconductors Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global 2D Semiconductors Product Life Cycle
- Figure 13. 2D Semiconductors Sales Share by Manufacturers in 2025
- Figure 14. Global 2D Semiconductors Revenue Share by Manufacturers in 2025
- Figure 15. 2D Semiconductors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market 2D Semiconductors Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by 2D Semiconductors Revenue in 2025
- Figure 18. Industry Chain Map of 2D Semiconductors
- Figure 19. Global 2D Semiconductors Market PEST Analysis
- Figure 20. Global 2D Semiconductors 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 2D Semiconductors Market Share by Type
- Figure 27. Sales Market Share of 2D Semiconductors by Type (2020-2025)
- Figure 28. Sales Market Share of 2D Semiconductors by Type in 2025
- Figure 29. Market Share of 2D Semiconductors by Type (2020-2025)
- Figure 30. Market Share of 2D Semiconductors by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global 2D Semiconductors Market Share by Application

- Figure 33. Global 2D Semiconductors Sales Market Share by Application (2020-2025)
- Figure 34. Global 2D Semiconductors Sales Market Share by Application in 2025
- Figure 35. Global 2D Semiconductors Market Share by Application (2020-2025)
- Figure 36. Global 2D Semiconductors Market Share by Application in 2025
- Figure 37. Global 2D Semiconductors Sales Growth Rate by Application (2020-2025)
- Figure 38. Global 2D Semiconductors Sales Market Share by Region (2020-2025)
- Figure 39. Global 2D Semiconductors Market Size by Region (2020-2025)
- Figure 40. North America 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America 2D Semiconductors Sales Market Share by Country in 2024
- Figure 43. North America 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America 2D Semiconductors Market Size by Country in 2024
- Figure 45. U.S. 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada 2D Semiconductors Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada 2D Semiconductors Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico 2D Semiconductors Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico 2D Semiconductors Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe 2D Semiconductors Sales Market Share by Country in 2024
- Figure 53. Europe 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe 2D Semiconductors Market Size by Country in 2024
- Figure 55. Germany 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 56. Germany 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 58. France 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)
- Figure 60. U.K. 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 61. Italy 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific 2D Semiconductors Sales and Growth Rate (K MT)

Figure 66. Asia Pacific 2D Semiconductors Sales Market Share by Region in 2024

Figure 67. Asia Pacific 2D Semiconductors Market Size by Region in 2024

Figure 68. China 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America 2D Semiconductors Sales and Growth Rate (K MT)

Figure 79. South America 2D Semiconductors Sales Market Share by Country in 2024

Figure 80. South America 2D Semiconductors Market Size and Growth Rate (M USD)

Figure 81. South America 2D Semiconductors Market Size by Country in 2024

Figure 82. Brazil 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa 2D Semiconductors Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa 2D Semiconductors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa 2D Semiconductors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa 2D Semiconductors Market Size by Region in 2024

Figure 92. Saudi Arabia 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa 2D Semiconductors Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa 2D Semiconductors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global 2D Semiconductors Production Market Share by Region (2020-2025)

Figure 103. North America 2D Semiconductors Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe 2D Semiconductors Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan 2D Semiconductors Production (K MT) Growth Rate (2020-2025)

Figure 106. China 2D Semiconductors Production (K MT) Growth Rate (2020-2025)

Figure 107. Global 2D Semiconductors Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global 2D Semiconductors Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global 2D Semiconductors Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global 2D Semiconductors Market Share Forecast by Type (2026-2035)

Figure 111. Global 2D Semiconductors Sales Forecast by Application (2026-2035)

Figure 112. Global 2D Semiconductors Market Share Forecast by Application (2026-2035)

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