

Global 2D Inorganic Materials Market Growth 2024-2030

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Abstracts

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Two-dimensional (2D) inorganic materials refer to a class of materials that exhibit structural confinement in two dimensions, leading to unique physical, chemical, and electronic properties. These materials are typically composed of single or few atomic layers, giving rise to their two-dimensional nature.

Graphene, a single layer of carbon atoms arranged in a hexagonal lattice, is one of the most well-known examples of 2D materials. Its remarkable mechanical strength, electrical conductivity, and thermal conductivity have spurred extensive research and applications in various fields, including electronics, energy storage, and composite materials.

Beyond graphene, there is a diverse array of 2D inorganic materials, including transition metal dichalcogenides (TMDs) like molybdenum disulfide (MoS₂) and tungsten diselenide (WSe₂), hexagonal boron nitride (h-BN), black phosphorus (phosphorene), transition metal oxides, and more. Each of these materials possesses unique properties and potential applications.

The atomically thin nature of 2D inorganic materials allows for precise control over their properties through manipulation at the atomic scale. This tunability opens up opportunities for engineering materials with tailored characteristics for specific applications, such as optoelectronics, catalysis, sensing, and beyond.

Researchers continue to explore the synthesis, characterization, and applications of 2D inorganic materials, aiming to unlock their full potential and revolutionize various

technologies.

The global 2D Inorganic Materials market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “2D Inorganic Materials Industry Forecast” looks at past sales and reviews total world 2D Inorganic Materials sales in 2023, providing a comprehensive analysis by region and market sector of projected 2D Inorganic Materials sales for 2024 through 2030. With 2D Inorganic Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D Inorganic Materials industry.

This Insight Report provides a comprehensive analysis of the global 2D Inorganic Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 2D Inorganic Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 2D Inorganic Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 2D Inorganic Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 2D Inorganic Materials.

United States market for 2D Inorganic Materials is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for 2D Inorganic Materials is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for 2D Inorganic Materials is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key 2D Inorganic Materials players cover Abalonyx AS, ACS Material, AVANZARE, BASF SE, XG Sciences, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of 2D Inorganic Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Graphene

MXene Material

Others

Segmentation by Application:

Energy Storage

Optoelectronics

Environmental

Biomedical

Photocatalysis

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Abalonyx AS

ACS Material

AVANZARE

BASF SE

XG Sciences

Planar Tech

Garmor

Thomas-swan

Nitronix

2D Tech Graphene

American Elements

Sigma-Aldrich (Merck)

Japan Material Technologies Corporation (JMTC)

Alfa Chemistry

Beike 2D Materials

Nanjing XFNANO Materials

Beijing Zhongkeleiming Technology

6Carbon Technology (ShenZhen)

Nanoshel

Foshan Xixi Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 2D Inorganic Materials market?

What factors are driving 2D Inorganic Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 2D Inorganic Materials market opportunities vary by end market size?

How does 2D Inorganic Materials break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global 2D Inorganic Materials Annual Sales 2019-2030
 - 2.1.2 World Current & Future Analysis for 2D Inorganic Materials by Geographic Region, 2019, 2023 & 2030
 - 2.1.3 World Current & Future Analysis for 2D Inorganic Materials by Country/Region, 2019, 2023 & 2030
- 2.2 2D Inorganic Materials Segment by Type
 - 2.2.1 Graphene
 - 2.2.2 MXene Material
 - 2.2.3 Others
- 2.3 2D Inorganic Materials Sales by Type
 - 2.3.1 Global 2D Inorganic Materials Sales Market Share by Type (2019-2024)
 - 2.3.2 Global 2D Inorganic Materials Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global 2D Inorganic Materials Sale Price by Type (2019-2024)
- 2.4 2D Inorganic Materials Segment by Application
 - 2.4.1 Energy Storage
 - 2.4.2 Optoelectronics
 - 2.4.3 Environmental
 - 2.4.4 Biomedical
 - 2.4.5 Photocatalysis
 - 2.4.6 Others
- 2.5 2D Inorganic Materials Sales by Application
 - 2.5.1 Global 2D Inorganic Materials Sale Market Share by Application (2019-2024)
 - 2.5.2 Global 2D Inorganic Materials Revenue and Market Share by Application

(2019-2024)

2.5.3 Global 2D Inorganic Materials Sale Price by Application (2019-2024)

3 GLOBAL BY COMPANY

3.1 Global 2D Inorganic Materials Breakdown Data by Company

3.1.1 Global 2D Inorganic Materials Annual Sales by Company (2019-2024)

3.1.2 Global 2D Inorganic Materials Sales Market Share by Company (2019-2024)

3.2 Global 2D Inorganic Materials Annual Revenue by Company (2019-2024)

3.2.1 Global 2D Inorganic Materials Revenue by Company (2019-2024)

3.2.2 Global 2D Inorganic Materials Revenue Market Share by Company (2019-2024)

3.3 Global 2D Inorganic Materials Sale Price by Company

3.4 Key Manufacturers 2D Inorganic Materials Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers 2D Inorganic Materials Product Location Distribution

3.4.2 Players 2D Inorganic Materials Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 2D INORGANIC MATERIALS BY GEOGRAPHIC REGION

4.1 World Historic 2D Inorganic Materials Market Size by Geographic Region (2019-2024)

4.1.1 Global 2D Inorganic Materials Annual Sales by Geographic Region (2019-2024)

4.1.2 Global 2D Inorganic Materials Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic 2D Inorganic Materials Market Size by Country/Region (2019-2024)

4.2.1 Global 2D Inorganic Materials Annual Sales by Country/Region (2019-2024)

4.2.2 Global 2D Inorganic Materials Annual Revenue by Country/Region (2019-2024)

4.3 Americas 2D Inorganic Materials Sales Growth

4.4 APAC 2D Inorganic Materials Sales Growth

4.5 Europe 2D Inorganic Materials Sales Growth

4.6 Middle East & Africa 2D Inorganic Materials Sales Growth

5 AMERICAS

5.1 Americas 2D Inorganic Materials Sales by Country

5.1.1 Americas 2D Inorganic Materials Sales by Country (2019-2024)

5.1.2 Americas 2D Inorganic Materials Revenue by Country (2019-2024)

5.2 Americas 2D Inorganic Materials Sales by Type (2019-2024)

5.3 Americas 2D Inorganic Materials Sales by Application (2019-2024)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC 2D Inorganic Materials Sales by Region

6.1.1 APAC 2D Inorganic Materials Sales by Region (2019-2024)

6.1.2 APAC 2D Inorganic Materials Revenue by Region (2019-2024)

6.2 APAC 2D Inorganic Materials Sales by Type (2019-2024)

6.3 APAC 2D Inorganic Materials Sales by Application (2019-2024)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe 2D Inorganic Materials by Country

7.1.1 Europe 2D Inorganic Materials Sales by Country (2019-2024)

7.1.2 Europe 2D Inorganic Materials Revenue by Country (2019-2024)

7.2 Europe 2D Inorganic Materials Sales by Type (2019-2024)

7.3 Europe 2D Inorganic Materials Sales by Application (2019-2024)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa 2D Inorganic Materials by Country

8.1.1 Middle East & Africa 2D Inorganic Materials Sales by Country (2019-2024)

8.1.2 Middle East & Africa 2D Inorganic Materials Revenue by Country (2019-2024)

8.2 Middle East & Africa 2D Inorganic Materials Sales by Type (2019-2024)

8.3 Middle East & Africa 2D Inorganic Materials Sales by Application (2019-2024)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of 2D Inorganic Materials

10.3 Manufacturing Process Analysis of 2D Inorganic Materials

10.4 Industry Chain Structure of 2D Inorganic Materials

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 2D Inorganic Materials Distributors

11.3 2D Inorganic Materials Customer

12 WORLD FORECAST REVIEW FOR 2D INORGANIC MATERIALS BY GEOGRAPHIC REGION

12.1 Global 2D Inorganic Materials Market Size Forecast by Region

12.1.1 Global 2D Inorganic Materials Forecast by Region (2025-2030)

12.1.2 Global 2D Inorganic Materials Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country (2025-2030)

12.3 APAC Forecast by Region (2025-2030)

12.4 Europe Forecast by Country (2025-2030)

12.5 Middle East & Africa Forecast by Country (2025-2030)

12.6 Global 2D Inorganic Materials Forecast by Type (2025-2030)

12.7 Global 2D Inorganic Materials Forecast by Application (2025-2030)

13 KEY PLAYERS ANALYSIS

13.1 Abalonyx AS

13.1.1 Abalonyx AS Company Information

13.1.2 Abalonyx AS 2D Inorganic Materials Product Portfolios and Specifications

13.1.3 Abalonyx AS 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Abalonyx AS Main Business Overview

13.1.5 Abalonyx AS Latest Developments

13.2 ACS Material

13.2.1 ACS Material Company Information

13.2.2 ACS Material 2D Inorganic Materials Product Portfolios and Specifications

13.2.3 ACS Material 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.2.4 ACS Material Main Business Overview

13.2.5 ACS Material Latest Developments

13.3 AVANZARE

13.3.1 AVANZARE Company Information

13.3.2 AVANZARE 2D Inorganic Materials Product Portfolios and Specifications

13.3.3 AVANZARE 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.3.4 AVANZARE Main Business Overview

13.3.5 AVANZARE Latest Developments

13.4 BASF SE

13.4.1 BASF SE Company Information

13.4.2 BASF SE 2D Inorganic Materials Product Portfolios and Specifications

13.4.3 BASF SE 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.4.4 BASF SE Main Business Overview

13.4.5 BASF SE Latest Developments

13.5 XG Sciences

13.5.1 XG Sciences Company Information

13.5.2 XG Sciences 2D Inorganic Materials Product Portfolios and Specifications

13.5.3 XG Sciences 2D Inorganic Materials Sales, Revenue, Price and Gross Margin
(2019-2024)

13.5.4 XG Sciences Main Business Overview

13.5.5 XG Sciences Latest Developments

13.6 Planar Tech

13.6.1 Planar Tech Company Information

13.6.2 Planar Tech 2D Inorganic Materials Product Portfolios and Specifications

13.6.3 Planar Tech 2D Inorganic Materials Sales, Revenue, Price and Gross Margin
(2019-2024)

13.6.4 Planar Tech Main Business Overview

13.6.5 Planar Tech Latest Developments

13.7 Garmor

13.7.1 Garmor Company Information

13.7.2 Garmor 2D Inorganic Materials Product Portfolios and Specifications

13.7.3 Garmor 2D Inorganic Materials Sales, Revenue, Price and Gross Margin
(2019-2024)

13.7.4 Garmor Main Business Overview

13.7.5 Garmor Latest Developments

13.8 Thomas-swan

13.8.1 Thomas-swan Company Information

13.8.2 Thomas-swan 2D Inorganic Materials Product Portfolios and Specifications

13.8.3 Thomas-swan 2D Inorganic Materials Sales, Revenue, Price and Gross Margin
(2019-2024)

13.8.4 Thomas-swan Main Business Overview

13.8.5 Thomas-swan Latest Developments

13.9 Nitronix

13.9.1 Nitronix Company Information

13.9.2 Nitronix 2D Inorganic Materials Product Portfolios and Specifications

13.9.3 Nitronix 2D Inorganic Materials Sales, Revenue, Price and Gross Margin
(2019-2024)

13.9.4 Nitronix Main Business Overview

13.9.5 Nitronix Latest Developments

13.10 2D Tech Graphene

13.10.1 2D Tech Graphene Company Information

13.10.2 2D Tech Graphene 2D Inorganic Materials Product Portfolios and
Specifications

13.10.3 2D Tech Graphene 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.10.4 2D Tech Graphene Main Business Overview

13.10.5 2D Tech Graphene Latest Developments

13.11 American Elements

13.11.1 American Elements Company Information

13.11.2 American Elements 2D Inorganic Materials Product Portfolios and Specifications

13.11.3 American Elements 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.11.4 American Elements Main Business Overview

13.11.5 American Elements Latest Developments

13.12 Sigma-Aldrich (Merck)

13.12.1 Sigma-Aldrich (Merck) Company Information

13.12.2 Sigma-Aldrich (Merck) 2D Inorganic Materials Product Portfolios and Specifications

13.12.3 Sigma-Aldrich (Merck) 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.12.4 Sigma-Aldrich (Merck) Main Business Overview

13.12.5 Sigma-Aldrich (Merck) Latest Developments

13.13 Japan Material Technologies Corporation (JMTC)

13.13.1 Japan Material Technologies Corporation (JMTC) Company Information

13.13.2 Japan Material Technologies Corporation (JMTC) 2D Inorganic Materials Product Portfolios and Specifications

13.13.3 Japan Material Technologies Corporation (JMTC) 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.13.4 Japan Material Technologies Corporation (JMTC) Main Business Overview

13.13.5 Japan Material Technologies Corporation (JMTC) Latest Developments

13.14 Alfa Chemistry

13.14.1 Alfa Chemistry Company Information

13.14.2 Alfa Chemistry 2D Inorganic Materials Product Portfolios and Specifications

13.14.3 Alfa Chemistry 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.14.4 Alfa Chemistry Main Business Overview

13.14.5 Alfa Chemistry Latest Developments

13.15 Beike 2D Materials

13.15.1 Beike 2D Materials Company Information

13.15.2 Beike 2D Materials 2D Inorganic Materials Product Portfolios and Specifications

13.15.3 Beike 2D Materials 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.15.4 Beike 2D Materials Main Business Overview

13.15.5 Beike 2D Materials Latest Developments

13.16 Nanjing XFNANO Materials

13.16.1 Nanjing XFNANO Materials Company Information

13.16.2 Nanjing XFNANO Materials 2D Inorganic Materials Product Portfolios and Specifications

13.16.3 Nanjing XFNANO Materials 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.16.4 Nanjing XFNANO Materials Main Business Overview

13.16.5 Nanjing XFNANO Materials Latest Developments

13.17 Beijing Zhongkeleiming Technology

13.17.1 Beijing Zhongkeleiming Technology Company Information

13.17.2 Beijing Zhongkeleiming Technology 2D Inorganic Materials Product Portfolios and Specifications

13.17.3 Beijing Zhongkeleiming Technology 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.17.4 Beijing Zhongkeleiming Technology Main Business Overview

13.17.5 Beijing Zhongkeleiming Technology Latest Developments

13.18 6Carbon Technology (ShenZhen)

13.18.1 6Carbon Technology (ShenZhen) Company Information

13.18.2 6Carbon Technology (ShenZhen) 2D Inorganic Materials Product Portfolios and Specifications

13.18.3 6Carbon Technology (ShenZhen) 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.18.4 6Carbon Technology (ShenZhen) Main Business Overview

13.18.5 6Carbon Technology (ShenZhen) Latest Developments

13.19 Nanoshel

13.19.1 Nanoshel Company Information

13.19.2 Nanoshel 2D Inorganic Materials Product Portfolios and Specifications

13.19.3 Nanoshel 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.19.4 Nanoshel Main Business Overview

13.19.5 Nanoshel Latest Developments

13.20 Foshan Xinxi Technology

13.20.1 Foshan Xinxi Technology Company Information

13.20.2 Foshan Xinxi Technology 2D Inorganic Materials Product Portfolios and Specifications

13.20.3 Foshan Xinxi Technology 2D Inorganic Materials Sales, Revenue, Price and Gross Margin (2019-2024)

13.20.4 Foshan Xinxi Technology Main Business Overview

13.20.5 Foshan Xinxi Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 2D Inorganic Materials Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. 2D Inorganic Materials Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Graphene

Table 4. Major Players of MXene Material

Table 5. Major Players of Others

Table 6. Global 2D Inorganic Materials Sales by Type (2019-2024) & (Tons)

Table 7. Global 2D Inorganic Materials Sales Market Share by Type (2019-2024)

Table 8. Global 2D Inorganic Materials Revenue by Type (2019-2024) & (\$ million)

Table 9. Global 2D Inorganic Materials Revenue Market Share by Type (2019-2024)

Table 10. Global 2D Inorganic Materials Sale Price by Type (2019-2024) & (US\$/Ton)

Table 11. Global 2D Inorganic Materials Sale by Application (2019-2024) & (Tons)

Table 12. Global 2D Inorganic Materials Sale Market Share by Application (2019-2024)

Table 13. Global 2D Inorganic Materials Revenue by Application (2019-2024) & (\$ million)

Table 14. Global 2D Inorganic Materials Revenue Market Share by Application (2019-2024)

Table 15. Global 2D Inorganic Materials Sale Price by Application (2019-2024) & (US\$/Ton)

Table 16. Global 2D Inorganic Materials Sales by Company (2019-2024) & (Tons)

Table 17. Global 2D Inorganic Materials Sales Market Share by Company (2019-2024)

Table 18. Global 2D Inorganic Materials Revenue by Company (2019-2024) & (\$ millions)

Table 19. Global 2D Inorganic Materials Revenue Market Share by Company (2019-2024)

Table 20. Global 2D Inorganic Materials Sale Price by Company (2019-2024) & (US\$/Ton)

Table 21. Key Manufacturers 2D Inorganic Materials Producing Area Distribution and Sales Area

Table 22. Players 2D Inorganic Materials Products Offered

Table 23. 2D Inorganic Materials Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global 2D Inorganic Materials Sales by Geographic Region (2019-2024) & (Tons)

Table 27. Global 2D Inorganic Materials Sales Market Share Geographic Region (2019-2024)

Table 28. Global 2D Inorganic Materials Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 29. Global 2D Inorganic Materials Revenue Market Share by Geographic Region (2019-2024)

Table 30. Global 2D Inorganic Materials Sales by Country/Region (2019-2024) & (Tons)

Table 31. Global 2D Inorganic Materials Sales Market Share by Country/Region (2019-2024)

Table 32. Global 2D Inorganic Materials Revenue by Country/Region (2019-2024) & (\$ millions)

Table 33. Global 2D Inorganic Materials Revenue Market Share by Country/Region (2019-2024)

Table 34. Americas 2D Inorganic Materials Sales by Country (2019-2024) & (Tons)

Table 35. Americas 2D Inorganic Materials Sales Market Share by Country (2019-2024)

Table 36. Americas 2D Inorganic Materials Revenue by Country (2019-2024) & (\$ millions)

Table 37. Americas 2D Inorganic Materials Sales by Type (2019-2024) & (Tons)

Table 38. Americas 2D Inorganic Materials Sales by Application (2019-2024) & (Tons)

Table 39. APAC 2D Inorganic Materials Sales by Region (2019-2024) & (Tons)

Table 40. APAC 2D Inorganic Materials Sales Market Share by Region (2019-2024)

Table 41. APAC 2D Inorganic Materials Revenue by Region (2019-2024) & (\$ millions)

Table 42. APAC 2D Inorganic Materials Sales by Type (2019-2024) & (Tons)

Table 43. APAC 2D Inorganic Materials Sales by Application (2019-2024) & (Tons)

Table 44. Europe 2D Inorganic Materials Sales by Country (2019-2024) & (Tons)

Table 45. Europe 2D Inorganic Materials Revenue by Country (2019-2024) & (\$ millions)

Table 46. Europe 2D Inorganic Materials Sales by Type (2019-2024) & (Tons)

Table 47. Europe 2D Inorganic Materials Sales by Application (2019-2024) & (Tons)

Table 48. Middle East & Africa 2D Inorganic Materials Sales by Country (2019-2024) & (Tons)

Table 49. Middle East & Africa 2D Inorganic Materials Revenue Market Share by Country (2019-2024)

Table 50. Middle East & Africa 2D Inorganic Materials Sales by Type (2019-2024) & (Tons)

Table 51. Middle East & Africa 2D Inorganic Materials Sales by Application (2019-2024) & (Tons)

- Table 52. Key Market Drivers & Growth Opportunities of 2D Inorganic Materials
- Table 53. Key Market Challenges & Risks of 2D Inorganic Materials
- Table 54. Key Industry Trends of 2D Inorganic Materials
- Table 55. 2D Inorganic Materials Raw Material
- Table 56. Key Suppliers of Raw Materials
- Table 57. 2D Inorganic Materials Distributors List
- Table 58. 2D Inorganic Materials Customer List
- Table 59. Global 2D Inorganic Materials Sales Forecast by Region (2025-2030) & (Tons)
- Table 60. Global 2D Inorganic Materials Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 61. Americas 2D Inorganic Materials Sales Forecast by Country (2025-2030) & (Tons)
- Table 62. Americas 2D Inorganic Materials Annual Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 63. APAC 2D Inorganic Materials Sales Forecast by Region (2025-2030) & (Tons)
- Table 64. APAC 2D Inorganic Materials Annual Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 65. Europe 2D Inorganic Materials Sales Forecast by Country (2025-2030) & (Tons)
- Table 66. Europe 2D Inorganic Materials Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 67. Middle East & Africa 2D Inorganic Materials Sales Forecast by Country (2025-2030) & (Tons)
- Table 68. Middle East & Africa 2D Inorganic Materials Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 69. Global 2D Inorganic Materials Sales Forecast by Type (2025-2030) & (Tons)
- Table 70. Global 2D Inorganic Materials Revenue Forecast by Type (2025-2030) & (\$ millions)
- Table 71. Global 2D Inorganic Materials Sales Forecast by Application (2025-2030) & (Tons)
- Table 72. Global 2D Inorganic Materials Revenue Forecast by Application (2025-2030) & (\$ millions)
- Table 73. Abalonyx AS Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 74. Abalonyx AS 2D Inorganic Materials Product Portfolios and Specifications
- Table 75. Abalonyx AS 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 76. Abalonyx AS Main Business

Table 77. Abalonyx AS Latest Developments

Table 78. ACS Material Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 79. ACS Material 2D Inorganic Materials Product Portfolios and Specifications

Table 80. ACS Material 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 81. ACS Material Main Business

Table 82. ACS Material Latest Developments

Table 83. AVANZARE Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 84. AVANZARE 2D Inorganic Materials Product Portfolios and Specifications

Table 85. AVANZARE 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 86. AVANZARE Main Business

Table 87. AVANZARE Latest Developments

Table 88. BASF SE Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 89. BASF SE 2D Inorganic Materials Product Portfolios and Specifications

Table 90. BASF SE 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 91. BASF SE Main Business

Table 92. BASF SE Latest Developments

Table 93. XG Sciences Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 94. XG Sciences 2D Inorganic Materials Product Portfolios and Specifications

Table 95. XG Sciences 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 96. XG Sciences Main Business

Table 97. XG Sciences Latest Developments

Table 98. Planar Tech Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 99. Planar Tech 2D Inorganic Materials Product Portfolios and Specifications

Table 100. Planar Tech 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 101. Planar Tech Main Business

Table 102. Planar Tech Latest Developments

Table 103. Garmor Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

- Table 104. Garmor 2D Inorganic Materials Product Portfolios and Specifications
- Table 105. Garmor 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 106. Garmor Main Business
- Table 107. Garmor Latest Developments
- Table 108. Thomas-swan Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 109. Thomas-swan 2D Inorganic Materials Product Portfolios and Specifications
- Table 110. Thomas-swan 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 111. Thomas-swan Main Business
- Table 112. Thomas-swan Latest Developments
- Table 113. Nitronix Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 114. Nitronix 2D Inorganic Materials Product Portfolios and Specifications
- Table 115. Nitronix 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 116. Nitronix Main Business
- Table 117. Nitronix Latest Developments
- Table 118. 2D Tech Graphene Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 119. 2D Tech Graphene 2D Inorganic Materials Product Portfolios and Specifications
- Table 120. 2D Tech Graphene 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 121. 2D Tech Graphene Main Business
- Table 122. 2D Tech Graphene Latest Developments
- Table 123. American Elements Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 124. American Elements 2D Inorganic Materials Product Portfolios and Specifications
- Table 125. American Elements 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 126. American Elements Main Business
- Table 127. American Elements Latest Developments
- Table 128. Sigma-Aldrich (Merck) Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 129. Sigma-Aldrich (Merck) 2D Inorganic Materials Product Portfolios and Specifications

Table 130. Sigma-Aldrich (Merck) 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 131. Sigma-Aldrich (Merck) Main Business

Table 132. Sigma-Aldrich (Merck) Latest Developments

Table 133. Japan Material Technologies Corporation (JMTC) Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 134. Japan Material Technologies Corporation (JMTC) 2D Inorganic Materials Product Portfolios and Specifications

Table 135. Japan Material Technologies Corporation (JMTC) 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 136. Japan Material Technologies Corporation (JMTC) Main Business

Table 137. Japan Material Technologies Corporation (JMTC) Latest Developments

Table 138. Alfa Chemistry Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 139. Alfa Chemistry 2D Inorganic Materials Product Portfolios and Specifications

Table 140. Alfa Chemistry 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 141. Alfa Chemistry Main Business

Table 142. Alfa Chemistry Latest Developments

Table 143. Beike 2D Materials Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 144. Beike 2D Materials 2D Inorganic Materials Product Portfolios and Specifications

Table 145. Beike 2D Materials 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 146. Beike 2D Materials Main Business

Table 147. Beike 2D Materials Latest Developments

Table 148. Nanjing XFNANO Materials Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 149. Nanjing XFNANO Materials 2D Inorganic Materials Product Portfolios and Specifications

Table 150. Nanjing XFNANO Materials 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 151. Nanjing XFNANO Materials Main Business

Table 152. Nanjing XFNANO Materials Latest Developments

Table 153. Beijing Zhongkeleiming Technology Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors

Table 154. Beijing Zhongkeleiming Technology 2D Inorganic Materials Product Portfolios and Specifications

- Table 155. Beijing Zhongkeleiming Technology 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 156. Beijing Zhongkeleiming Technology Main Business
- Table 157. Beijing Zhongkeleiming Technology Latest Developments
- Table 158. 6Carbon Technology (ShenZhen) Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 159. 6Carbon Technology (ShenZhen) 2D Inorganic Materials Product Portfolios and Specifications
- Table 160. 6Carbon Technology (ShenZhen) 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 161. 6Carbon Technology (ShenZhen) Main Business
- Table 162. 6Carbon Technology (ShenZhen) Latest Developments
- Table 163. Nanoshel Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 164. Nanoshel 2D Inorganic Materials Product Portfolios and Specifications
- Table 165. Nanoshel 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 166. Nanoshel Main Business
- Table 167. Nanoshel Latest Developments
- Table 168. Foshan Xinxi Technology Basic Information, 2D Inorganic Materials Manufacturing Base, Sales Area and Its Competitors
- Table 169. Foshan Xinxi Technology 2D Inorganic Materials Product Portfolios and Specifications
- Table 170. Foshan Xinxi Technology 2D Inorganic Materials Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
- Table 171. Foshan Xinxi Technology Main Business
- Table 172. Foshan Xinxi Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of 2D Inorganic Materials
- Figure 2. 2D Inorganic Materials Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global 2D Inorganic Materials Sales Growth Rate 2019-2030 (Tons)
- Figure 7. Global 2D Inorganic Materials Revenue Growth Rate 2019-2030 (\$ millions)
- Figure 8. 2D Inorganic Materials Sales by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Figure 9. 2D Inorganic Materials Sales Market Share by Country/Region (2023)
- Figure 10. 2D Inorganic Materials Sales Market Share by Country/Region (2019, 2023 & 2030)
- Figure 11. Product Picture of Graphene
- Figure 12. Product Picture of MXene Material
- Figure 13. Product Picture of Others
- Figure 14. Global 2D Inorganic Materials Sales Market Share by Type in 2023
- Figure 15. Global 2D Inorganic Materials Revenue Market Share by Type (2019-2024)
- Figure 16. 2D Inorganic Materials Consumed in Energy Storage
- Figure 17. Global 2D Inorganic Materials Market: Energy Storage (2019-2024) & (Tons)
- Figure 18. 2D Inorganic Materials Consumed in Optoelectronics
- Figure 19. Global 2D Inorganic Materials Market: Optoelectronics (2019-2024) & (Tons)
- Figure 20. 2D Inorganic Materials Consumed in Environmental
- Figure 21. Global 2D Inorganic Materials Market: Environmental (2019-2024) & (Tons)
- Figure 22. 2D Inorganic Materials Consumed in Biomedical
- Figure 23. Global 2D Inorganic Materials Market: Biomedical (2019-2024) & (Tons)
- Figure 24. 2D Inorganic Materials Consumed in Photocatalysis
- Figure 25. Global 2D Inorganic Materials Market: Photocatalysis (2019-2024) & (Tons)
- Figure 26. 2D Inorganic Materials Consumed in Others
- Figure 27. Global 2D Inorganic Materials Market: Others (2019-2024) & (Tons)
- Figure 28. Global 2D Inorganic Materials Sale Market Share by Application (2023)
- Figure 29. Global 2D Inorganic Materials Revenue Market Share by Application in 2023
- Figure 30. 2D Inorganic Materials Sales by Company in 2023 (Tons)
- Figure 31. Global 2D Inorganic Materials Sales Market Share by Company in 2023
- Figure 32. 2D Inorganic Materials Revenue by Company in 2023 (\$ millions)
- Figure 33. Global 2D Inorganic Materials Revenue Market Share by Company in 2023

Figure 34. Global 2D Inorganic Materials Sales Market Share by Geographic Region (2019-2024)

Figure 35. Global 2D Inorganic Materials Revenue Market Share by Geographic Region in 2023

Figure 36. Americas 2D Inorganic Materials Sales 2019-2024 (Tons)

Figure 37. Americas 2D Inorganic Materials Revenue 2019-2024 (\$ millions)

Figure 38. APAC 2D Inorganic Materials Sales 2019-2024 (Tons)

Figure 39. APAC 2D Inorganic Materials Revenue 2019-2024 (\$ millions)

Figure 40. Europe 2D Inorganic Materials Sales 2019-2024 (Tons)

Figure 41. Europe 2D Inorganic Materials Revenue 2019-2024 (\$ millions)

Figure 42. Middle East & Africa 2D Inorganic Materials Sales 2019-2024 (Tons)

Figure 43. Middle East & Africa 2D Inorganic Materials Revenue 2019-2024 (\$ millions)

Figure 44. Americas 2D Inorganic Materials Sales Market Share by Country in 2023

Figure 45. Americas 2D Inorganic Materials Revenue Market Share by Country (2019-2024)

Figure 46. Americas 2D Inorganic Materials Sales Market Share by Type (2019-2024)

Figure 47. Americas 2D Inorganic Materials Sales Market Share by Application (2019-2024)

Figure 48. United States 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 49. Canada 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 50. Mexico 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 51. Brazil 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 52. APAC 2D Inorganic Materials Sales Market Share by Region in 2023

Figure 53. APAC 2D Inorganic Materials Revenue Market Share by Region (2019-2024)

Figure 54. APAC 2D Inorganic Materials Sales Market Share by Type (2019-2024)

Figure 55. APAC 2D Inorganic Materials Sales Market Share by Application (2019-2024)

Figure 56. China 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 57. Japan 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 58. South Korea 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 59. Southeast Asia 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 60. India 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 61. Australia 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 62. China Taiwan 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 63. Europe 2D Inorganic Materials Sales Market Share by Country in 2023

Figure 64. Europe 2D Inorganic Materials Revenue Market Share by Country

(2019-2024)

Figure 65. Europe 2D Inorganic Materials Sales Market Share by Type (2019-2024)

Figure 66. Europe 2D Inorganic Materials Sales Market Share by Application (2019-2024)

Figure 67. Germany 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 68. France 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 69. UK 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 70. Italy 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 71. Russia 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 72. Middle East & Africa 2D Inorganic Materials Sales Market Share by Country (2019-2024)

Figure 73. Middle East & Africa 2D Inorganic Materials Sales Market Share by Type (2019-2024)

Figure 74. Middle East & Africa 2D Inorganic Materials Sales Market Share by Application (2019-2024)

Figure 75. Egypt 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 76. South Africa 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 77. Israel 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 78. Turkey 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 79. GCC Countries 2D Inorganic Materials Revenue Growth 2019-2024 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of 2D Inorganic Materials in 2023

Figure 81. Manufacturing Process Analysis of 2D Inorganic Materials

Figure 82. Industry Chain Structure of 2D Inorganic Materials

Figure 83. Channels of Distribution

Figure 84. Global 2D Inorganic Materials Sales Market Forecast by Region (2025-2030)

Figure 85. Global 2D Inorganic Materials Revenue Market Share Forecast by Region (2025-2030)

Figure 86. Global 2D Inorganic Materials Sales Market Share Forecast by Type (2025-2030)

Figure 87. Global 2D Inorganic Materials Revenue Market Share Forecast by Type (2025-2030)

Figure 88. Global 2D Inorganic Materials Sales Market Share Forecast by Application (2025-2030)

Figure 89. Global 2D Inorganic Materials Revenue Market Share Forecast by Application (2025-2030)

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