

# Global Black Phosphorus Anode Material Supply, Demand and Key Producers, 2023-2029

https://marketpublishers.com/r/G6E8951DF8B5EN.html

Date: September 2023

Pages: 109

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

ID: G6E8951DF8B5EN

## **Abstracts**

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

This report studies the global Black Phosphorus Anode Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Black Phosphorus Anode Material, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Black Phosphorus Anode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Black Phosphorus Anode Material total production and demand, 2018-2029, (kg)

Global Black Phosphorus Anode Material total production value, 2018-2029, (USD Million)

Global Black Phosphorus Anode Material production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (kg)

Global Black Phosphorus Anode Material consumption by region & country, CAGR, 2018-2029 & (kg)

U.S. VS China: Black Phosphorus Anode Material domestic production, consumption,



key domestic manufacturers and share

Global Black Phosphorus Anode Material production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (kg)

Global Black Phosphorus Anode Material production by Type, production, value, CAGR, 2018-2029, (USD Million) & (kg)

Global Black Phosphorus Anode Material production by Application production, value, CAGR, 2018-2029, (USD Million) & (kg).

This reports profiles key players in the global Black Phosphorus Anode Material 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 ACS Material, 2D Semiconductors, Mophos, 6Carbon Technology, American Elements, Nanochemazone, HQ Graphene, Manchester Nanomaterials and WEISTRON, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Black Phosphorus Anode Material market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (k US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

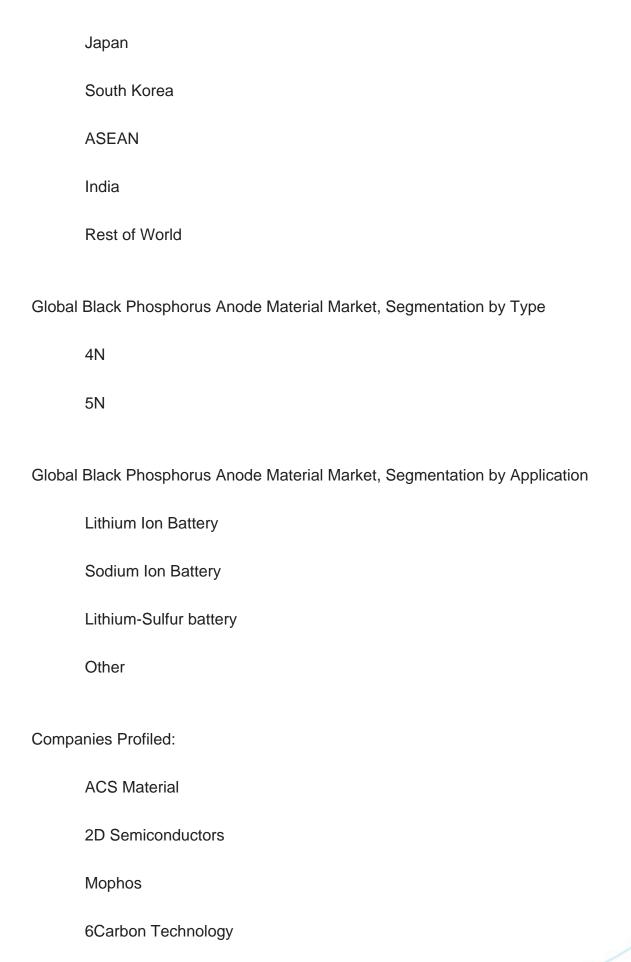
Global Black Phosphorus Anode Material Market, By Region:

**United States** 

China

Europe







**American Elements** 

Nanochemazone		
HQ Graphene		
Manchester Nanomaterials		
WEISTRON		
Smart-elements		
Taizhou Sunano Energy		
Key Questions Answered		
1. How big is the global Black Phosphorus Anode Material market?		
2. What is the demand of the global Black Phosphorus Anode Material market?		
3. What is the year over year growth of the global Black Phosphorus Anode Material market?		
4. What is the production and production value of the global Black Phosphorus Anode Material market?		
5. Who are the key producers in the global Black Phosphorus Anode Material market		



## **Contents**

## 1 SUPPLY SUMMARY

- 1.1 Black Phosphorus Anode Material Introduction
- 1.2 World Black Phosphorus Anode Material Supply & Forecast
  - 1.2.1 World Black Phosphorus Anode Material Production Value (2018 & 2022 & 2029)
  - 1.2.2 World Black Phosphorus Anode Material Production (2018-2029)
  - 1.2.3 World Black Phosphorus Anode Material Pricing Trends (2018-2029)
- 1.3 World Black Phosphorus Anode Material Production by Region (Based on Production Site)
- 1.3.1 World Black Phosphorus Anode Material Production Value by Region (2018-2029)
  - 1.3.2 World Black Phosphorus Anode Material Production by Region (2018-2029)
  - 1.3.3 World Black Phosphorus Anode Material Average Price by Region (2018-2029)
  - 1.3.4 North America Black Phosphorus Anode Material Production (2018-2029)
  - 1.3.5 Europe Black Phosphorus Anode Material Production (2018-2029)
  - 1.3.6 China Black Phosphorus Anode Material Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
- 1.4.1 Black Phosphorus Anode Material Market Drivers
- 1.4.2 Factors Affecting Demand
- 1.4.3 Black Phosphorus Anode Material Major Market Trends

#### **2 DEMAND SUMMARY**

- 2.1 World Black Phosphorus Anode Material Demand (2018-2029)
- 2.2 World Black Phosphorus Anode Material Consumption by Region
- 2.2.1 World Black Phosphorus Anode Material Consumption by Region (2018-2023)
- 2.2.2 World Black Phosphorus Anode Material Consumption Forecast by Region (2024-2029)
- 2.3 United States Black Phosphorus Anode Material Consumption (2018-2029)
- 2.4 China Black Phosphorus Anode Material Consumption (2018-2029)
- 2.5 Europe Black Phosphorus Anode Material Consumption (2018-2029)
- 2.6 Japan Black Phosphorus Anode Material Consumption (2018-2029)
- 2.7 South Korea Black Phosphorus Anode Material Consumption (2018-2029)
- 2.8 ASEAN Black Phosphorus Anode Material Consumption (2018-2029)
- 2.9 India Black Phosphorus Anode Material Consumption (2018-2029)

## 3 WORLD BLACK PHOSPHORUS ANODE MATERIAL MANUFACTURERS



#### **COMPETITIVE ANALYSIS**

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



- 4.3.1 United States VS China: Black Phosphorus Anode Material Consumption Comparison (2018 & 2022 & 2029)
- 4.3.2 United States VS China: Black Phosphorus Anode Material Consumption Market Share Comparison (2018 & 2022 & 2029)
- 4.4 United States Based Black Phosphorus Anode Material Manufacturers and Market Share, 2018-2023
- 4.4.1 United States Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (States, Country)
- 4.4.2 United States Based Manufacturers Black Phosphorus Anode Material Production Value (2018-2023)
- 4.4.3 United States Based Manufacturers Black Phosphorus Anode Material Production (2018-2023)
- 4.5 China Based Black Phosphorus Anode Material Manufacturers and Market Share
- 4.5.1 China Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (Province, Country)
- 4.5.2 China Based Manufacturers Black Phosphorus Anode Material Production Value (2018-2023)
- 4.5.3 China Based Manufacturers Black Phosphorus Anode Material Production (2018-2023)
- 4.6 Rest of World Based Black Phosphorus Anode Material Manufacturers and Market Share, 2018-2023
- 4.6.1 Rest of World Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (State, Country)
- 4.6.2 Rest of World Based Manufacturers Black Phosphorus Anode Material Production Value (2018-2023)
- 4.6.3 Rest of World Based Manufacturers Black Phosphorus Anode Material Production (2018-2023)

#### **5 MARKET ANALYSIS BY TYPE**

- 5.1 World Black Phosphorus Anode Material Market Size Overview by Type: 2018 VS 2022 VS 2029
- 5.2 Segment Introduction by Type
  - 5.2.1 4N
  - 5.2.2 5N
- 5.3 Market Segment by Type
- 5.3.1 World Black Phosphorus Anode Material Production by Type (2018-2029)
- 5.3.2 World Black Phosphorus Anode Material Production Value by Type (2018-2029)
- 5.3.3 World Black Phosphorus Anode Material Average Price by Type (2018-2029)



#### **6 MARKET ANALYSIS BY APPLICATION**

- 6.1 World Black Phosphorus Anode Material Market Size Overview by Application: 2018 VS 2022 VS 2029
- 6.2 Segment Introduction by Application
  - 6.2.1 Lithium Ion Battery
  - 6.2.2 Sodium Ion Battery
  - 6.2.3 Lithium-Sulfur battery
  - 6.2.4 Other
- 6.3 Market Segment by Application
  - 6.3.1 World Black Phosphorus Anode Material Production by Application (2018-2029)
- 6.3.2 World Black Phosphorus Anode Material Production Value by Application (2018-2029)
- 6.3.3 World Black Phosphorus Anode Material Average Price by Application (2018-2029)

#### 7 COMPANY PROFILES

- 7.1 ACS Material
  - 7.1.1 ACS Material Details
  - 7.1.2 ACS Material Major Business
  - 7.1.3 ACS Material Black Phosphorus Anode Material Product and Services
- 7.1.4 ACS Material Black Phosphorus Anode Material Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.1.5 ACS Material Recent Developments/Updates
- 7.1.6 ACS Material Competitive Strengths & Weaknesses
- 7.2 2D Semiconductors
  - 7.2.1 2D Semiconductors Details
  - 7.2.2 2D Semiconductors Major Business
  - 7.2.3 2D Semiconductors Black Phosphorus Anode Material Product and Services
  - 7.2.4 2D Semiconductors Black Phosphorus Anode Material Production, Price, Value,
- Gross Margin and Market Share (2018-2023)
  - 7.2.5 2D Semiconductors Recent Developments/Updates
- 7.2.6 2D Semiconductors Competitive Strengths & Weaknesses
- 7.3 Mophos
  - 7.3.1 Mophos Details
  - 7.3.2 Mophos Major Business
  - 7.3.3 Mophos Black Phosphorus Anode Material Product and Services



- 7.3.4 Mophos Black Phosphorus Anode Material Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 Mophos Recent Developments/Updates
  - 7.3.6 Mophos Competitive Strengths & Weaknesses
- 7.4 6Carbon Technology
  - 7.4.1 6Carbon Technology Details
  - 7.4.2 6Carbon Technology Major Business
  - 7.4.3 6Carbon Technology Black Phosphorus Anode Material Product and Services
  - 7.4.4 6Carbon Technology Black Phosphorus Anode Material Production, Price, Value,

Gross Margin and Market Share (2018-2023)

- 7.4.5 6Carbon Technology Recent Developments/Updates
- 7.4.6 6Carbon Technology Competitive Strengths & Weaknesses
- 7.5 American Elements
  - 7.5.1 American Elements Details
  - 7.5.2 American Elements Major Business
  - 7.5.3 American Elements Black Phosphorus Anode Material Product and Services
  - 7.5.4 American Elements Black Phosphorus Anode Material Production, Price, Value,

Gross Margin and Market Share (2018-2023)

- 7.5.5 American Elements Recent Developments/Updates
- 7.5.6 American Elements Competitive Strengths & Weaknesses
- 7.6 Nanochemazone
  - 7.6.1 Nanochemazone Details
  - 7.6.2 Nanochemazone Major Business
  - 7.6.3 Nanochemazone Black Phosphorus Anode Material Product and Services
  - 7.6.4 Nanochemazone Black Phosphorus Anode Material Production, Price, Value,

Gross Margin and Market Share (2018-2023)

- 7.6.5 Nanochemazone Recent Developments/Updates
- 7.6.6 Nanochemazone Competitive Strengths & Weaknesses
- 7.7 HQ Graphene
  - 7.7.1 HQ Graphene Details
  - 7.7.2 HQ Graphene Major Business
  - 7.7.3 HQ Graphene Black Phosphorus Anode Material Product and Services
- 7.7.4 HQ Graphene Black Phosphorus Anode Material Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.7.5 HQ Graphene Recent Developments/Updates
  - 7.7.6 HQ Graphene Competitive Strengths & Weaknesses
- 7.8 Manchester Nanomaterials
  - 7.8.1 Manchester Nanomaterials Details
- 7.8.2 Manchester Nanomaterials Major Business



- 7.8.3 Manchester Nanomaterials Black Phosphorus Anode Material Product and Services
- 7.8.4 Manchester Nanomaterials Black Phosphorus Anode Material Production, Price,
- Value, Gross Margin and Market Share (2018-2023)
  - 7.8.5 Manchester Nanomaterials Recent Developments/Updates
  - 7.8.6 Manchester Nanomaterials Competitive Strengths & Weaknesses
- 7.9 WEISTRON
  - 7.9.1 WEISTRON Details
  - 7.9.2 WEISTRON Major Business
  - 7.9.3 WEISTRON Black Phosphorus Anode Material Product and Services
- 7.9.4 WEISTRON Black Phosphorus Anode Material Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.9.5 WEISTRON Recent Developments/Updates
- 7.9.6 WEISTRON Competitive Strengths & Weaknesses
- 7.10 Smart-elements
  - 7.10.1 Smart-elements Details
  - 7.10.2 Smart-elements Major Business
  - 7.10.3 Smart-elements Black Phosphorus Anode Material Product and Services
  - 7.10.4 Smart-elements Black Phosphorus Anode Material Production, Price, Value,

Gross Margin and Market Share (2018-2023)

- 7.10.5 Smart-elements Recent Developments/Updates
- 7.10.6 Smart-elements Competitive Strengths & Weaknesses
- 7.11 Taizhou Sunano Energy
  - 7.11.1 Taizhou Sunano Energy Details
  - 7.11.2 Taizhou Sunano Energy Major Business
- 7.11.3 Taizhou Sunano Energy Black Phosphorus Anode Material Product and Services
- 7.11.4 Taizhou Sunano Energy Black Phosphorus Anode Material Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.11.5 Taizhou Sunano Energy Recent Developments/Updates
- 7.11.6 Taizhou Sunano Energy Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 Black Phosphorus Anode Material Industry Chain
- 8.2 Black Phosphorus Anode Material Upstream Analysis
  - 8.2.1 Black Phosphorus Anode Material Core Raw Materials
  - 8.2.2 Main Manufacturers of Black Phosphorus Anode Material Core Raw Materials
- 8.3 Midstream Analysis



- 8.4 Downstream Analysis
- 8.5 Black Phosphorus Anode Material Production Mode
- 8.6 Black Phosphorus Anode Material Procurement Model
- 8.7 Black Phosphorus Anode Material Industry Sales Model and Sales Channels
  - 8.7.1 Black Phosphorus Anode Material Sales Model
  - 8.7.2 Black Phosphorus Anode Material Typical Customers

## 9 RESEARCH FINDINGS AND CONCLUSION

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer



## **List Of Tables**

#### LIST OF TABLES

Table 1. World Black Phosphorus Anode Material Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Black Phosphorus Anode Material Production Value by Region (2018-2023) & (USD Million)

Table 3. World Black Phosphorus Anode Material Production Value by Region (2024-2029) & (USD Million)

Table 4. World Black Phosphorus Anode Material Production Value Market Share by Region (2018-2023)

Table 5. World Black Phosphorus Anode Material Production Value Market Share by Region (2024-2029)

Table 6. World Black Phosphorus Anode Material Production by Region (2018-2023) & (kg)

Table 7. World Black Phosphorus Anode Material Production by Region (2024-2029) & (kg)

Table 8. World Black Phosphorus Anode Material Production Market Share by Region (2018-2023)

Table 9. World Black Phosphorus Anode Material Production Market Share by Region (2024-2029)

Table 10. World Black Phosphorus Anode Material Average Price by Region (2018-2023) & (k US\$/kg)

Table 11. World Black Phosphorus Anode Material Average Price by Region (2024-2029) & (k US\$/kg)

Table 12. Black Phosphorus Anode Material Major Market Trends

Table 13. World Black Phosphorus Anode Material Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (kg)

Table 14. World Black Phosphorus Anode Material Consumption by Region (2018-2023) & (kg)

Table 15. World Black Phosphorus Anode Material Consumption Forecast by Region (2024-2029) & (kg)

Table 16. World Black Phosphorus Anode Material Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Black Phosphorus Anode Material Producers in 2022

Table 18. World Black Phosphorus Anode Material Production by Manufacturer (2018-2023) & (kg)



- Table 19. Production Market Share of Key Black Phosphorus Anode Material Producers in 2022
- Table 20. World Black Phosphorus Anode Material Average Price by Manufacturer (2018-2023) & (k US\$/kg)
- Table 21. Global Black Phosphorus Anode Material Company Evaluation Quadrant
- Table 22. World Black Phosphorus Anode Material Industry Rank of Major

Manufacturers, Based on Production Value in 2022

- Table 23. Head Office and Black Phosphorus Anode Material Production Site of Key Manufacturer
- Table 24. Black Phosphorus Anode Material Market: Company Product Type Footprint
- Table 25. Black Phosphorus Anode Material Market: Company Product Application Footprint
- Table 26. Black Phosphorus Anode Material Competitive Factors
- Table 27. Black Phosphorus Anode Material New Entrant and Capacity Expansion Plans
- Table 28. Black Phosphorus Anode Material Mergers & Acquisitions Activity
- Table 29. United States VS China Black Phosphorus Anode Material Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)
- Table 30. United States VS China Black Phosphorus Anode Material Production Comparison, (2018 & 2022 & 2029) & (kg)
- Table 31. United States VS China Black Phosphorus Anode Material Consumption Comparison, (2018 & 2022 & 2029) & (kg)
- Table 32. United States Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Black Phosphorus Anode Material Production Value, (2018-2023) & (USD Million)
- Table 34. United States Based Manufacturers Black Phosphorus Anode Material Production Value Market Share (2018-2023)
- Table 35. United States Based Manufacturers Black Phosphorus Anode Material Production (2018-2023) & (kg)
- Table 36. United States Based Manufacturers Black Phosphorus Anode Material Production Market Share (2018-2023)
- Table 37. China Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Black Phosphorus Anode Material Production Value, (2018-2023) & (USD Million)
- Table 39. China Based Manufacturers Black Phosphorus Anode Material Production Value Market Share (2018-2023)
- Table 40. China Based Manufacturers Black Phosphorus Anode Material Production



(2018-2023) & (kg)

Table 41. China Based Manufacturers Black Phosphorus Anode Material Production Market Share (2018-2023)

Table 42. Rest of World Based Black Phosphorus Anode Material Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Black Phosphorus Anode Material Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Black Phosphorus Anode Material Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Black Phosphorus Anode Material Production (2018-2023) & (kg)

Table 46. Rest of World Based Manufacturers Black Phosphorus Anode Material Production Market Share (2018-2023)

Table 47. World Black Phosphorus Anode Material Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Black Phosphorus Anode Material Production by Type (2018-2023) & (kg)

Table 49. World Black Phosphorus Anode Material Production by Type (2024-2029) & (kg)

Table 50. World Black Phosphorus Anode Material Production Value by Type (2018-2023) & (USD Million)

Table 51. World Black Phosphorus Anode Material Production Value by Type (2024-2029) & (USD Million)

Table 52. World Black Phosphorus Anode Material Average Price by Type (2018-2023) & (k US\$/kg)

Table 53. World Black Phosphorus Anode Material Average Price by Type (2024-2029) & (k US\$/kg)

Table 54. World Black Phosphorus Anode Material Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Black Phosphorus Anode Material Production by Application (2018-2023) & (kg)

Table 56. World Black Phosphorus Anode Material Production by Application (2024-2029) & (kg)

Table 57. World Black Phosphorus Anode Material Production Value by Application (2018-2023) & (USD Million)

Table 58. World Black Phosphorus Anode Material Production Value by Application (2024-2029) & (USD Million)

Table 59. World Black Phosphorus Anode Material Average Price by Application (2018-2023) & (k US\$/kg)



- Table 60. World Black Phosphorus Anode Material Average Price by Application (2024-2029) & (k US\$/kg)
- Table 61. ACS Material Basic Information, Manufacturing Base and Competitors
- Table 62. ACS Material Major Business
- Table 63. ACS Material Black Phosphorus Anode Material Product and Services
- Table 64. ACS Material Black Phosphorus Anode Material Production (kg), Price (k
- US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 65. ACS Material Recent Developments/Updates
- Table 66. ACS Material Competitive Strengths & Weaknesses
- Table 67. 2D Semiconductors Basic Information, Manufacturing Base and Competitors
- Table 68. 2D Semiconductors Major Business
- Table 69. 2D Semiconductors Black Phosphorus Anode Material Product and Services
- Table 70. 2D Semiconductors Black Phosphorus Anode Material Production (kg), Price (k US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 71. 2D Semiconductors Recent Developments/Updates
- Table 72. 2D Semiconductors Competitive Strengths & Weaknesses
- Table 73. Mophos Basic Information, Manufacturing Base and Competitors
- Table 74. Mophos Major Business
- Table 75. Mophos Black Phosphorus Anode Material Product and Services
- Table 76. Mophos Black Phosphorus Anode Material Production (kg), Price (k US\$/kg),
- Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 77. Mophos Recent Developments/Updates
- Table 78. Mophos Competitive Strengths & Weaknesses
- Table 79. 6Carbon Technology Basic Information, Manufacturing Base and Competitors
- Table 80. 6Carbon Technology Major Business
- Table 81. 6Carbon Technology Black Phosphorus Anode Material Product and Services
- Table 82. 6Carbon Technology Black Phosphorus Anode Material Production (kg), Price (k US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 83. 6Carbon Technology Recent Developments/Updates
- Table 84. 6Carbon Technology Competitive Strengths & Weaknesses
- Table 85. American Elements Basic Information, Manufacturing Base and Competitors
- Table 86. American Elements Major Business
- Table 87. American Elements Black Phosphorus Anode Material Product and Services
- Table 88. American Elements Black Phosphorus Anode Material Production (kg), Price (k US\$/kg), Production Value (USD Million), Gross Margin and Market Share
- (2018-2023)
- Table 89. American Elements Recent Developments/Updates



- Table 90. American Elements Competitive Strengths & Weaknesses
- Table 91. Nanochemazone Basic Information, Manufacturing Base and Competitors
- Table 92. Nanochemazone Major Business
- Table 93. Nanochemazone Black Phosphorus Anode Material Product and Services
- Table 94. Nanochemazone Black Phosphorus Anode Material Production (kg), Price (k
- US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. Nanochemazone Recent Developments/Updates
- Table 96. Nanochemazone Competitive Strengths & Weaknesses
- Table 97. HQ Graphene Basic Information, Manufacturing Base and Competitors
- Table 98. HQ Graphene Major Business
- Table 99. HQ Graphene Black Phosphorus Anode Material Product and Services
- Table 100. HQ Graphene Black Phosphorus Anode Material Production (kg), Price (k
- US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. HQ Graphene Recent Developments/Updates
- Table 102. HQ Graphene Competitive Strengths & Weaknesses
- Table 103. Manchester Nanomaterials Basic Information, Manufacturing Base and Competitors
- Table 104. Manchester Nanomaterials Major Business
- Table 105. Manchester Nanomaterials Black Phosphorus Anode Material Product and Services
- Table 106. Manchester Nanomaterials Black Phosphorus Anode Material Production
- (kg), Price (k US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Manchester Nanomaterials Recent Developments/Updates
- Table 108. Manchester Nanomaterials Competitive Strengths & Weaknesses
- Table 109. WEISTRON Basic Information, Manufacturing Base and Competitors
- Table 110. WEISTRON Major Business
- Table 111. WEISTRON Black Phosphorus Anode Material Product and Services
- Table 112. WEISTRON Black Phosphorus Anode Material Production (kg), Price (k
- US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. WEISTRON Recent Developments/Updates
- Table 114. WEISTRON Competitive Strengths & Weaknesses
- Table 115. Smart-elements Basic Information, Manufacturing Base and Competitors
- Table 116. Smart-elements Major Business
- Table 117. Smart-elements Black Phosphorus Anode Material Product and Services
- Table 118. Smart-elements Black Phosphorus Anode Material Production (kg), Price (k
- US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. Smart-elements Recent Developments/Updates
- Table 120. Taizhou Sunano Energy Basic Information, Manufacturing Base and



## Competitors

Table 121. Taizhou Sunano Energy Major Business

Table 122. Taizhou Sunano Energy Black Phosphorus Anode Material Product and Services

Table 123. Taizhou Sunano Energy Black Phosphorus Anode Material Production (kg),

Price (k US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 124. Global Key Players of Black Phosphorus Anode Material Upstream (Raw Materials)

Table 125. Black Phosphorus Anode Material Typical Customers

Table 126. Black Phosphorus Anode Material Typical Distributors

List of Figure

Figure 1. Black Phosphorus Anode Material Picture

Figure 2. World Black Phosphorus Anode Material Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Black Phosphorus Anode Material Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Black Phosphorus Anode Material Production (2018-2029) & (kg)

Figure 5. World Black Phosphorus Anode Material Average Price (2018-2029) & (k US\$/kg)

Figure 6. World Black Phosphorus Anode Material Production Value Market Share by Region (2018-2029)

Figure 7. World Black Phosphorus Anode Material Production Market Share by Region (2018-2029)

Figure 8. North America Black Phosphorus Anode Material Production (2018-2029) & (kg)

Figure 9. Europe Black Phosphorus Anode Material Production (2018-2029) & (kg)

Figure 10. China Black Phosphorus Anode Material Production (2018-2029) & (kg)

Figure 11. Black Phosphorus Anode Material Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 14. World Black Phosphorus Anode Material Consumption Market Share by Region (2018-2029)

Figure 15. United States Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 16. China Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 17. Europe Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 18. Japan Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 19. South Korea Black Phosphorus Anode Material Consumption (2018-2029) &



(kg)

Figure 20. ASEAN Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 21. India Black Phosphorus Anode Material Consumption (2018-2029) & (kg)

Figure 22. Producer Shipments of Black Phosphorus Anode Material by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 23. Global Four-firm Concentration Ratios (CR4) for Black Phosphorus Anode Material Markets in 2022

Figure 24. Global Four-firm Concentration Ratios (CR8) for Black Phosphorus Anode Material Markets in 2022

Figure 25. United States VS China: Black Phosphorus Anode Material Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 26. United States VS China: Black Phosphorus Anode Material Production Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Black Phosphorus Anode Material Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States Based Manufacturers Black Phosphorus Anode Material Production Market Share 2022

Figure 29. China Based Manufacturers Black Phosphorus Anode Material Production Market Share 2022

Figure 30. Rest of World Based Manufacturers Black Phosphorus Anode Material Production Market Share 2022

Figure 31. World Black Phosphorus Anode Material Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 32. World Black Phosphorus Anode Material Production Value Market Share by Type in 2022

Figure 33. 4N

Figure 34.5N

Figure 35. World Black Phosphorus Anode Material Production Market Share by Type (2018-2029)

Figure 36. World Black Phosphorus Anode Material Production Value Market Share by Type (2018-2029)

Figure 37. World Black Phosphorus Anode Material Average Price by Type (2018-2029) & (k US\$/kg)

Figure 38. World Black Phosphorus Anode Material Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 39. World Black Phosphorus Anode Material Production Value Market Share by Application in 2022

Figure 40. Lithium Ion Battery

Figure 41. Sodium Ion Battery



Figure 42. Lithium-Sulfur battery

Figure 43. Other

Figure 44. World Black Phosphorus Anode Material Production Market Share by Application (2018-2029)

Figure 45. World Black Phosphorus Anode Material Production Value Market Share by Application (2018-2029)

Figure 46. World Black Phosphorus Anode Material Average Price by Application (2018-2029) & (k US\$/kg)

Figure 47. Black Phosphorus Anode Material Industry Chain

Figure 48. Black Phosphorus Anode Material Procurement Model

Figure 49. Black Phosphorus Anode Material Sales Model

Figure 50. Black Phosphorus Anode Material Sales Channels, Direct Sales, and Distribution

Figure 51. Methodology

Figure 52. Research Process and Data Source



## I would like to order

Product name: Global Black Phosphorus Anode Material Supply, Demand and Key Producers,

2023-2029

Product link: <a href="https://marketpublishers.com/r/G6E8951DF8B5EN.html">https://marketpublishers.com/r/G6E8951DF8B5EN.html</a>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

## **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/G6E8951DF8B5EN.html">https://marketpublishers.com/r/G6E8951DF8B5EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



