

Global Black Phosphorus Powder Production, Demand and Key Producers, 2022-2028

<https://marketpublishers.com/r/G982E64B0189EN.html>

Date: December 2022

Pages: 121

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

ID: G982E64B0189EN

Abstracts

Compared with other allotropes of phosphorus (white and red phosphorus), black phosphorus powder is a thermodynamic stable semiconductor material. It can be widely used in photo-catalysis, photo-degradation, and other photo-voltage effects.

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

This report is a detailed and comprehensive analysis of the world market for Black Phosphorus Powder, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of Black Phosphorus Powder that contribute to its increasing demand across many markets.

The global Black Phosphorus Powder market size is expected to reach \$ million by 2028, rising at a market growth of % CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global Black Phosphorus Powder total production and demand, 2017-2028, (Tons)

Global Black Phosphorus Powder total production value, 2017-2028, (USD Million)

Global Black Phosphorus Powder production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (Tons)

Global Black Phosphorus Powder consumption by region & country, CAGR, 2017-2028

& (Tons)

U.S. VS China: Black Phosphorus Powder domestic production, consumption, key domestic manufacturers and share

Global Black Phosphorus Powder production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (Tons)

Global Black Phosphorus Powder production by Type, production, value, CAGR, 2017-2028, (USD Million) & (Tons)

Global Black Phosphorus Powder production by Application production, value, CAGR, 2017-2028, (USD Million) & (Tons)

This reports profiles key players in the global Black Phosphorus Powder market based on the following parameters – headquarters, production locations, products portfolio, Black Phosphorus Powder revenue, sales, average price and gross margin, recent developments.

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 Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Black Phosphorus Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Black Phosphorus Powder Market, Segmentation by Type

Purity:>99.99%

Purity:~99.99%

Global Black Phosphorus Powder Market, Segmentation by Application

Electronic Devices

Energy Storage

Sensors

Others

Companies Profiled:

ACS Material

2D Semiconductors

Nanochemazone

American Elements

Merck

HQ Graphene

Hunan Azeal Materials

Ossila Ltd.

Stanford Advanced Materials

Manchester Nanomaterials

Sigma-Aldrich

WEISTRON

Smart-elements

Taizhou Sunano Energy

Nanjing XFNANO Materials

Key Questions Answered

1. How big is the global Black Phosphorus Powder market?
2. What is the demand of the global Black Phosphorus Powder market?
3. What is the year over year growth of the global Black Phosphorus Powder market?
4. What is the production and production value of the global Black Phosphorus Powder market?
5. Who are the key producers in the global Black Phosphorus Powder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Black Phosphorus Powder Introduction
- 1.2 World Black Phosphorus Powder Supply & Forecast
 - 1.2.1 World Black Phosphorus Powder Production Value (2017 & 2021 & 2028)
 - 1.2.2 World Black Phosphorus Powder Production (2017-2028)
 - 1.2.3 World Black Phosphorus Powder Pricing Trends (2017-2028)
- 1.3 World Black Phosphorus Powder Production by Region
 - 1.3.1 World Black Phosphorus Powder Production Value by Region (2017-2028)
 - 1.3.2 World Black Phosphorus Powder Production by Region (2017-2028)
 - 1.3.3 World Black Phosphorus Powder Average Price by Region (2017-2028)
 - 1.3.4 North America Black Phosphorus Powder Production (2017-2028)
 - 1.3.5 Europe Black Phosphorus Powder Production (2017-2028)
 - 1.3.6 China Black Phosphorus Powder Production (2017-2028)
 - 1.3.7 Japan Black Phosphorus Powder Production (2017-2028)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Black Phosphorus Powder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Black Phosphorus Powder Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Black Phosphorus Powder Demand (2017-2028)
- 2.2 World Black Phosphorus Powder Consumption by Region
 - 2.2.1 World Black Phosphorus Powder Consumption by Region (2017-2022)
 - 2.2.2 World Black Phosphorus Powder Consumption Forecast by Region (2023-2028)
- 2.3 United States Black Phosphorus Powder Consumption (2017-2028)
- 2.4 China Black Phosphorus Powder Consumption (2017-2028)
- 2.5 Europe Black Phosphorus Powder Consumption (2017-2028)
- 2.6 Japan Black Phosphorus Powder Consumption (2017-2028)
- 2.7 South Korea Black Phosphorus Powder Consumption (2017-2028)
- 2.8 ASEAN Black Phosphorus Powder Consumption (2017-2028)
- 2.9 India Black Phosphorus Powder Consumption (2017-2028)

3 WORLD BLACK PHOSPHORUS POWDER MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Black Phosphorus Powder Production Value by Manufacturer (2017-2022)
- 3.2 World Black Phosphorus Powder Production by Manufacturer (2017-2022)
- 3.3 World Black Phosphorus Powder Average Price by Manufacturer (2017-2022)
- 3.4 Black Phosphorus Powder Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Black Phosphorus Powder Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Black Phosphorus Powder in 2021
 - 3.5.3 Global Concentration Ratios (CR8) for Black Phosphorus Powder in 2021
- 3.6 Black Phosphorus Powder Market: Overall Company Footprint Analysis
 - 3.6.1 Black Phosphorus Powder Market: Region Footprint
 - 3.6.2 Black Phosphorus Powder Market: Company Product Type Footprint
 - 3.6.3 Black Phosphorus Powder 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 Powder Production Value Comparison
 - 4.1.1 United States VS China: Black Phosphorus Powder Production Value Comparison (2017 & 2021 & 2028)
 - 4.1.2 United States VS China: Black Phosphorus Powder Production Value Market Share Comparison (2017 & 2021 & 2028)
- 4.2 United States VS China: Black Phosphorus Powder Production Comparison
 - 4.2.1 United States VS China: Black Phosphorus Powder Production Comparison (2017 & 2021 & 2028)
 - 4.2.2 United States VS China: Black Phosphorus Powder Production Market Share Comparison (2017 & 2021 & 2028)
- 4.3 United States VS China: Black Phosphorus Powder Consumption Comparison
 - 4.3.1 United States VS China: Black Phosphorus Powder Consumption Comparison (2017 & 2021 & 2028)
 - 4.3.2 United States VS China: Black Phosphorus Powder Consumption Market Share Comparison (2017 & 2021 & 2028)

4.4 United States Black Phosphorus Powder Key Producers and Market Share, 2017-2022

4.4.1 Major Manufacturer of Black Phosphorus Powder in United States, Company Headquarters and Production Place (States, Country)

4.4.2 United States Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022)

4.4.3 United States Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022)

4.5 China Black Phosphorus Powder Key Producers and Market Share, 2017-2022

4.5.1 Major Manufacturer of Black Phosphorus Powder in China, Company Headquarters and Production Place (Province, Country)

4.5.2 China Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022)

4.5.3 China Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022)

4.6 Rest of World Black Phosphorus Powder Key Producers and Market Share, 2017-2022

4.6.1 Major Manufacturer of Black Phosphorus Powder in Rest of World, Company Headquarters and Production Place (State, Country)

4.6.2 Rest of World Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022)

4.6.3 Rest of World Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022)

5 MARKET ANALYSIS BY TYPE

5.1 World Black Phosphorus Powder Market Size Overview by Type: 2017 VS 2021 VS 2028

5.2 Segment Introduction by Type

5.2.1 Purity:>99.99%

5.2.2 Purity:~99.99%

5.3 Market Segment by Type

5.3.1 World Black Phosphorus Powder Production by Type (2017-2028)

5.3.2 World Black Phosphorus Powder Production Value by Type (2017-2028)

5.3.3 World Black Phosphorus Powder Average Price by Type (2017-2028)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Black Phosphorus Powder Market Size Overview by Application: 2017 VS

2021 VS 2028

6.2 Segment Introduction by Application

6.2.1 Electronic Devices

6.2.2 Energy Storage

6.2.3 Sensors

6.2.4 Others

6.3 Market Segment by Application

6.3.1 World Black Phosphorus Powder Production by Application (2017-2028)

6.3.2 World Black Phosphorus Powder Production Value by Application (2017-2028)

6.3.3 World Black Phosphorus Powder Average Price by Application (2017-2028)

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 Powder Product and Services

7.1.4 ACS Material Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)

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 Powder Product and Services

7.2.4 2D Semiconductors Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)

7.2.5 2D Semiconductors Recent Developments/Updates

7.2.6 2D Semiconductors Competitive Strengths & Weaknesses

7.3 Nanochemazone

7.3.1 Nanochemazone Details

7.3.2 Nanochemazone Major Business

7.3.3 Nanochemazone Black Phosphorus Powder Product and Services

7.3.4 Nanochemazone Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)

7.3.5 Nanochemazone Recent Developments/Updates

7.3.6 Nanochemazone Competitive Strengths & Weaknesses

7.4 American Elements

7.4.1 American Elements Details

- 7.4.2 American Elements Major Business
- 7.4.3 American Elements Black Phosphorus Powder Product and Services
- 7.4.4 American Elements Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
- 7.4.5 American Elements Recent Developments/Updates
- 7.4.6 American Elements Competitive Strengths & Weaknesses
- 7.5 Merck
 - 7.5.1 Merck Details
 - 7.5.2 Merck Major Business
 - 7.5.3 Merck Black Phosphorus Powder Product and Services
 - 7.5.4 Merck Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.5.5 Merck Recent Developments/Updates
 - 7.5.6 Merck Competitive Strengths & Weaknesses
- 7.6 HQ Graphene
 - 7.6.1 HQ Graphene Details
 - 7.6.2 HQ Graphene Major Business
 - 7.6.3 HQ Graphene Black Phosphorus Powder Product and Services
 - 7.6.4 HQ Graphene Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.6.5 HQ Graphene Recent Developments/Updates
 - 7.6.6 HQ Graphene Competitive Strengths & Weaknesses
- 7.7 Hunan Azeal Materials
 - 7.7.1 Hunan Azeal Materials Details
 - 7.7.2 Hunan Azeal Materials Major Business
 - 7.7.3 Hunan Azeal Materials Black Phosphorus Powder Product and Services
 - 7.7.4 Hunan Azeal Materials Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.7.5 Hunan Azeal Materials Recent Developments/Updates
 - 7.7.6 Hunan Azeal Materials Competitive Strengths & Weaknesses
- 7.8 Ossila Ltd.
 - 7.8.1 Ossila Ltd. Details
 - 7.8.2 Ossila Ltd. Major Business
 - 7.8.3 Ossila Ltd. Black Phosphorus Powder Product and Services
 - 7.8.4 Ossila Ltd. Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.8.5 Ossila Ltd. Recent Developments/Updates
 - 7.8.6 Ossila Ltd. Competitive Strengths & Weaknesses
- 7.9 Stanford Advanced Materials

- 7.9.1 Stanford Advanced Materials Details
- 7.9.2 Stanford Advanced Materials Major Business
- 7.9.3 Stanford Advanced Materials Black Phosphorus Powder Product and Services
- 7.9.4 Stanford Advanced Materials Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
- 7.9.5 Stanford Advanced Materials Recent Developments/Updates
- 7.9.6 Stanford Advanced Materials Competitive Strengths & Weaknesses
- 7.10 Manchester Nanomaterials
 - 7.10.1 Manchester Nanomaterials Details
 - 7.10.2 Manchester Nanomaterials Major Business
 - 7.10.3 Manchester Nanomaterials Black Phosphorus Powder Product and Services
 - 7.10.4 Manchester Nanomaterials Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.10.5 Manchester Nanomaterials Recent Developments/Updates
 - 7.10.6 Manchester Nanomaterials Competitive Strengths & Weaknesses
- 7.11 Sigma-Aldrich
 - 7.11.1 Sigma-Aldrich Details
 - 7.11.2 Sigma-Aldrich Major Business
 - 7.11.3 Sigma-Aldrich Black Phosphorus Powder Product and Services
 - 7.11.4 Sigma-Aldrich Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.11.5 Sigma-Aldrich Recent Developments/Updates
 - 7.11.6 Sigma-Aldrich Competitive Strengths & Weaknesses
- 7.12 WEISTRON
 - 7.12.1 WEISTRON Details
 - 7.12.2 WEISTRON Major Business
 - 7.12.3 WEISTRON Black Phosphorus Powder Product and Services
 - 7.12.4 WEISTRON Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.12.5 WEISTRON Recent Developments/Updates
 - 7.12.6 WEISTRON Competitive Strengths & Weaknesses
- 7.13 Smart-elements
 - 7.13.1 Smart-elements Details
 - 7.13.2 Smart-elements Major Business
 - 7.13.3 Smart-elements Black Phosphorus Powder Product and Services
 - 7.13.4 Smart-elements Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)
 - 7.13.5 Smart-elements Recent Developments/Updates
 - 7.13.6 Smart-elements Competitive Strengths & Weaknesses

7.14 Taizhou Sunano Energy

7.14.1 Taizhou Sunano Energy Details

7.14.2 Taizhou Sunano Energy Major Business

7.14.3 Taizhou Sunano Energy Black Phosphorus Powder Product and Services

7.14.4 Taizhou Sunano Energy Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)

7.14.5 Taizhou Sunano Energy Recent Developments/Updates

7.14.6 Taizhou Sunano Energy Competitive Strengths & Weaknesses

7.15 Nanjing XFNANO Materials

7.15.1 Nanjing XFNANO Materials Details

7.15.2 Nanjing XFNANO Materials Major Business

7.15.3 Nanjing XFNANO Materials Black Phosphorus Powder Product and Services

7.15.4 Nanjing XFNANO Materials Black Phosphorus Powder Production, Price, Value, Gross Margin and Market Share (2017-2022)

7.15.5 Nanjing XFNANO Materials Recent Developments/Updates

7.15.6 Nanjing XFNANO Materials Competitive Strengths & Weaknesses

8 RAW MATERIAL AND INDUSTRY CHAIN

8.1 Raw Material of Black Phosphorus Powder and Key Manufacturers

8.2 Black Phosphorus Powder Manufacturing Costs

8.3 Black Phosphorus Powder Production Process

8.4 Black Phosphorus Powder Industrial Chain

9 DISTRIBUTION CHANNEL ANALYSIS

9.1 Distribution Channel Breakdown for Black Phosphorus Powder Shipments (%): 2017-2028

9.1.1 Direct Channel

9.1.2 Indirect Channel

9.2 Black Phosphorus Powder Typical Distributors

9.3 Black Phosphorus Powder Typical Customers

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Black Phosphorus Powder Production Value by Region (2017, 2022 and 2028) & (USD Million)

Table 2. World Black Phosphorus Powder Production Value by Region (2017-2022) & (USD Million)

Table 3. World Black Phosphorus Powder Production Value by Region (2023-2028) & (USD Million)

Table 4. World Black Phosphorus Powder Production Value Market Share by Region (2017-2022)

Table 5. World Black Phosphorus Powder Production Value Market Share by Region (2023-2028)

Table 6. World Black Phosphorus Powder Production by Region (2017-2022) & (Tons)

Table 7. World Black Phosphorus Powder Production by Region (2023-2028) & (Tons)

Table 8. World Black Phosphorus Powder Production Market Share by Region (2017-2022)

Table 9. World Black Phosphorus Powder Production Market Share by Region (2023-2028)

Table 10. World Black Phosphorus Powder Average Price by Region (2017-2022) & (US\$/Ton)

Table 11. World Black Phosphorus Powder Average Price by Region (2023-2028) & (US\$/Ton)

Table 12. Black Phosphorus Powder Major Market Trends

Table 13. World Black Phosphorus Powder Consumption Growth Rate Forecast by Region (2017 & 2021 & 2028) & (Tons)

Table 14. World Black Phosphorus Powder Consumption by Region (2017-2022) & (Tons)

Table 15. World Black Phosphorus Powder Consumption Forecast by Region (2023-2028) & (Tons)

Table 16. World Black Phosphorus Powder Production Value by Manufacturer (2017-2022) & (USD Million)

Table 17. Production Value Market Share of Key Black Phosphorus Powder Producers in 2021

Table 18. World Black Phosphorus Powder Production by Manufacturer (2017-2022) & (Tons)

Table 19. Production Market Share of Key Black Phosphorus Powder Producers in 2021

Table 20. World Black Phosphorus Powder Average Price by Manufacturer (2017-2022) & (US\$/Ton)

Table 21. Global Black Phosphorus Powder Company Evaluation Quadrant

Table 22. World Black Phosphorus Powder Industry Rank of Major Manufacturers, Based on Production Value in 2021

Table 23. Head Office and Black Phosphorus Powder Production Site of Key Manufacturer

Table 24. Black Phosphorus Powder Market: Company Product Type Footprint

Table 25. Black Phosphorus Powder Market: Company Product Application Footprint

Table 26. Black Phosphorus Powder Competitive Factors

Table 27. Black Phosphorus Powder New Entrant and Capacity Expansion Plans

Table 28. Black Phosphorus Powder Mergers & Acquisitions Activity

Table 29. United States VS China Black Phosphorus Powder Production Value Comparison, (2017 & 2021 & 2028) & (USD Million)

Table 30. United States VS China Black Phosphorus Powder Production Comparison, (2017 & 2021 & 2028) & (Tons)

Table 31. United States VS China Black Phosphorus Powder Consumption Comparison, (2017 & 2021 & 2028) & (Tons)

Table 32. Major Manufacturer of Black Phosphorus Powder in United States, Company Headquarters and Production Place (States, Country)

Table 33. United States Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022) & (USD Million)

Table 34. United States Black Phosphorus Powder Production Value Market Share by Domestic Manufacturer, (2017-2022)

Table 35. United States Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022) & (Tons)

Table 36. United States Black Phosphorus Powder Production Market Share by Domestic Manufacturer, (2017-2022)

Table 37. Major Manufacturer of Black Phosphorus Powder in China, Company Headquarters and Production Place (Province, Country)

Table 38. China Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022) & (USD Million)

Table 39. China Black Phosphorus Powder Production Value Market Share by Domestic Manufacturer, (2017-2022)

Table 40. China Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022) & (Tons)

Table 41. China Black Phosphorus Powder Production Market Share by Domestic Manufacturer, (2017-2022)

Table 42. Major Manufacturer of Black Phosphorus Powder in Rest of World, Company

Headquarters and Production Place (State, Country)

Table 43. Rest of World Black Phosphorus Powder Production Value by Domestic Manufacturer, (2017-2022) & (USD Million)

Table 44. Rest of World Black Phosphorus Powder Production Value Market Share by Domestic Manufacturer, (2017-2022)

Table 45. Rest of World Black Phosphorus Powder Production by Domestic Manufacturer, (2017-2022) & (Tons)

Table 46. Rest of World Black Phosphorus Powder Production Market Share by Domestic Manufacturer, (2017-2022)

Table 47. World Black Phosphorus Powder Production Value by Type, (USD Million), 2017 & 2021 & 2028

Table 48. World Black Phosphorus Powder Production by Type (2017-2022) & (Tons)

Table 49. World Black Phosphorus Powder Production by Type (2023-2028) & (Tons)

Table 50. World Black Phosphorus Powder Production Value by Type (2017-2022) & (USD Million)

Table 51. World Black Phosphorus Powder Production Value by Type (2023-2028) & (USD Million)

Table 52. World Black Phosphorus Powder Average Price by Type (2017-2022) & (US\$/Ton)

Table 53. World Black Phosphorus Powder Average Price by Type (2023-2028) & (US\$/Ton)

Table 54. World Black Phosphorus Powder Production Value by Application, (USD Million), 2017 & 2021 & 2028

Table 55. World Black Phosphorus Powder Production by Application (2017-2022) & (Tons)

Table 56. World Black Phosphorus Powder Production by Application (2023-2028) & (Tons)

Table 57. World Black Phosphorus Powder Production Value by Application (2017-2022) & (USD Million)

Table 58. World Black Phosphorus Powder Production Value by Application (2023-2028) & (USD Million)

Table 59. World Black Phosphorus Powder Average Price by Application (2017-2022) & (US\$/Ton)

Table 60. World Black Phosphorus Powder Average Price by Application (2023-2028) & (US\$/Ton)

Table 61. ACS Material Basic Information, Manufacturing Base and Competitors

Table 62. ACS Material Major Business

Table 63. ACS Material Black Phosphorus Powder Product and Services

Table 64. ACS Material Black Phosphorus Powder Production (Tons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2017-2022)

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 Powder Product and Services

Table 70. 2D Semiconductors Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 71. 2D Semiconductors Recent Developments/Updates

Table 72. 2D Semiconductors Competitive Strengths & Weaknesses

Table 73. Nanochemazone Basic Information, Manufacturing Base and Competitors

Table 74. Nanochemazone Major Business

Table 75. Nanochemazone Black Phosphorus Powder Product and Services

Table 76. Nanochemazone Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 77. Nanochemazone Recent Developments/Updates

Table 78. Nanochemazone Competitive Strengths & Weaknesses

Table 79. American Elements Basic Information, Manufacturing Base and Competitors

Table 80. American Elements Major Business

Table 81. American Elements Black Phosphorus Powder Product and Services

Table 82. American Elements Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 83. American Elements Recent Developments/Updates

Table 84. American Elements Competitive Strengths & Weaknesses

Table 85. Merck Basic Information, Manufacturing Base and Competitors

Table 86. Merck Major Business

Table 87. Merck Black Phosphorus Powder Product and Services

Table 88. Merck Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 89. Merck Recent Developments/Updates

Table 90. Merck Competitive Strengths & Weaknesses

Table 91. HQ Graphene Basic Information, Manufacturing Base and Competitors

Table 92. HQ Graphene Major Business

Table 93. HQ Graphene Black Phosphorus Powder Product and Services

Table 94. HQ Graphene Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 95. HQ Graphene Recent Developments/Updates

Table 96. HQ Graphene Competitive Strengths & Weaknesses

Table 97. Hunan Azeal Materials Basic Information, Manufacturing Base and Competitors

Table 98. Hunan Azeal Materials Major Business

Table 99. Hunan Azeal Materials Black Phosphorus Powder Product and Services

Table 100. Hunan Azeal Materials Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 101. Hunan Azeal Materials Recent Developments/Updates

Table 102. Hunan Azeal Materials Competitive Strengths & Weaknesses

Table 103. Ossila Ltd. Basic Information, Manufacturing Base and Competitors

Table 104. Ossila Ltd. Major Business

Table 105. Ossila Ltd. Black Phosphorus Powder Product and Services

Table 106. Ossila Ltd. Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 107. Ossila Ltd. Recent Developments/Updates

Table 108. Ossila Ltd. Competitive Strengths & Weaknesses

Table 109. Stanford Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 110. Stanford Advanced Materials Major Business

Table 111. Stanford Advanced Materials Black Phosphorus Powder Product and Services

Table 112. Stanford Advanced Materials Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 113. Stanford Advanced Materials Recent Developments/Updates

Table 114. Stanford Advanced Materials Competitive Strengths & Weaknesses

Table 115. Manchester Nanomaterials Basic Information, Manufacturing Base and Competitors

Table 116. Manchester Nanomaterials Major Business

Table 117. Manchester Nanomaterials Black Phosphorus Powder Product and Services

Table 118. Manchester Nanomaterials Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)

Table 119. Manchester Nanomaterials Recent Developments/Updates

Table 120. Manchester Nanomaterials Competitive Strengths & Weaknesses

Table 121. Sigma-Aldrich Basic Information, Manufacturing Base and Competitors

Table 122. Sigma-Aldrich Major Business

Table 123. Sigma-Aldrich Black Phosphorus Powder Product and Services
Table 124. Sigma-Aldrich Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)
Table 125. Sigma-Aldrich Recent Developments/Updates
Table 126. Sigma-Aldrich Competitive Strengths & Weaknesses
Table 127. WEISTRON Basic Information, Manufacturing Base and Competitors
Table 128. WEISTRON Major Business
Table 129. WEISTRON Black Phosphorus Powder Product and Services
Table 130. WEISTRON Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)
Table 131. WEISTRON Recent Developments/Updates
Table 132. WEISTRON Competitive Strengths & Weaknesses
Table 133. Smart-elements Basic Information, Manufacturing Base and Competitors
Table 134. Smart-elements Major Business
Table 135. Smart-elements Black Phosphorus Powder Product and Services
Table 136. Smart-elements Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)
Table 137. Smart-elements Recent Developments/Updates
Table 138. Smart-elements Competitive Strengths & Weaknesses
Table 139. Taizhou Sunano Energy Basic Information, Manufacturing Base and Competitors
Table 140. Taizhou Sunano Energy Major Business
Table 141. Taizhou Sunano Energy Black Phosphorus Powder Product and Services
Table 142. Taizhou Sunano Energy Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)
Table 143. Taizhou Sunano Energy Recent Developments/Updates
Table 144. Nanjing XFNANO Materials Basic Information, Manufacturing Base and Competitors
Table 145. Nanjing XFNANO Materials Major Business
Table 146. Nanjing XFNANO Materials Black Phosphorus Powder Product and Services
Table 147. Nanjing XFNANO Materials Black Phosphorus Powder Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2017-2022)
Table 148. Black Phosphorus Powder Raw Material
Table 149. Key Manufacturers of Black Phosphorus Powder Raw Materials
Table 150. Black Phosphorus Powder Typical Distributors

Table 151. Black Phosphorus Powder Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Black Phosphorus Powder Picture

Figure 2. World Black Phosphorus Powder Production Value: 2017 & 2021 & 2028, (USD Million)

Figure 3. World Black Phosphorus Powder Production Value and Forecast (2017-2028) & (USD Million)

Figure 4. World Black Phosphorus Powder Production (2017-2028) & (Tons)

Figure 5. World Black Phosphorus Powder Average Price (2017-2028) & (US\$/Ton)

Figure 6. World Black Phosphorus Powder Production Value Market Share by Region (2017-2028)

Figure 7. World Black Phosphorus Powder Production Market Share by Region (2017-2028)

Figure 8. North America Black Phosphorus Powder Production (2017-2028) & (Tons)

Figure 9. Europe Black Phosphorus Powder Production (2017-2028) & (Tons)

Figure 10. China Black Phosphorus Powder Production (2017-2028) & (Tons)

Figure 11. Japan Black Phosphorus Powder Production (2017-2028) & (Tons)

Figure 12. Black Phosphorus Powder Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Black Phosphorus Powder Demand (2017-2028) & (Tons)

Figure 15. World Black Phosphorus Powder Consumption Market Share by Region (2017-2028)

Figure 16. United States Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 17. China Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 18. Europe Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 19. Japan Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 20. South Korea Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 21. ASEAN Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 22. India Black Phosphorus Powder Consumption (2017-2028) & (Tons)

Figure 23. Producer Shipments of Black Phosphorus Powder by Manufacturer Revenue (\$MM) and Market Share (%): 2021

Figure 24. Global Four-firm Concentration Ratios (CR4) for Black Phosphorus Powder Markets in 2021

Figure 25. Global Four-firm Concentration Ratios (CR8) for Black Phosphorus Powder Markets in 2021

Figure 26. United States VS China: Black Phosphorus Powder Production Value Market Share Comparison (2017 & 2021 & 2028)

Figure 27. United States VS China: Black Phosphorus Powder Production Market Share Comparison (2017 & 2021 & 2028)

Figure 28. United States VS China: Black Phosphorus Powder Consumption Market Share Comparison (2017 & 2021 & 2028)

Figure 29. Key Producers and Market Share of Black Phosphorus Powder in United States

Figure 30. Key Producers and Market Share of Black Phosphorus Powder in China

Figure 31. Key Producers and Market Share of Black Phosphorus Powder in Rest of World

Figure 32. World Black Phosphorus Powder Production Value by Type, (USD Million), 2017 & 2021 & 2028

Figure 33. World Black Phosphorus Powder Production Value Market Share by Type in 2021

Figure 34. Purity:>99.99%

Figure 35. Purity:~99.99%

Figure 36. World Black Phosphorus Powder Production Market Share by Type (2017-2028)

Figure 37. World Black Phosphorus Powder Production Value Market Share by Type (2017-2028)

Figure 38. World Black Phosphorus Powder Average Price by Type (2017-2028) & (US\$/Ton)

Figure 39. World Black Phosphorus Powder Production Value by Application, (USD Million), 2017 & 2021 & 2028

Figure 40. World Black Phosphorus Powder Production Value Market Share by Application in 2021

Figure 41. Electronic Devices

Figure 42. Energy Storage

Figure 43. Sensors

Figure 44. Others

Figure 45. World Black Phosphorus Powder Production Market Share by Application (2017-2028)

Figure 46. World Black Phosphorus Powder Production Value Market Share by Application (2017-2028)

Figure 47. World Black Phosphorus Powder Average Price by Application (2017-2028) & (US\$/Ton)

Figure 48. Manufacturing Cost Structure Analysis of Black Phosphorus Powder in 2021

Figure 49. Manufacturing Process Analysis of Black Phosphorus Powder

Figure 50. Black Phosphorus Powder Industrial Chain

Figure 51. Distribution Channel Breakdown for Black Phosphorus Powder Shipments

(%): 2017-2028

Figure 52. Direct Channel Pros & Cons

Figure 53. Indirect Channel Pros & Cons

Figure 54. Methodology

Figure 55. Research Process and Data Source

I would like to order

Product name: Global Black Phosphorus Powder Production, Demand and Key Producers, 2022-2028

Product link: <https://marketpublishers.com/r/G982E64B0189EN.html>

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

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G982E64B0189EN.html>