

Global Cathode Block Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cathode Block market size is expected to reach \$ 1819 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

A cathode block is a refractory carbon block used as the lining material at the bottom of aluminum electrolysis cells (Hall-Héroult cells). It serves as the cathode during the electrolytic reduction of alumina (Al_2O_3) into primary aluminum metal. In 2024, global Cathode Block production reached approximately 634 K MT.

Cathode blocks are high-temperature resistant carbon blocks used as lining materials in the electrolytic cells of aluminum smelters. They serve as the conductive bottom layer of reduction cells, carrying electric current while withstanding intense chemical and thermal stresses during the Hall-Héroult process. Cathode blocks are manufactured using high-quality raw materials such as calcined anthracite, graphite, petroleum coke, and coal tar pitch, which are processed under high pressure and temperature to achieve excellent electrical conductivity, corrosion resistance, and mechanical strength. The global production capacity is approximately 1,120,000 tons, with gross profit margins of 9%-22%. Common single-line production capacities are in the 3,000-5,000 ton range.

The industry chain begins upstream with raw material suppliers of anthracite, petroleum coke, pitch, and graphite. These are calcined, crushed, mixed with binders, and then molded, baked, and graphitized to form cathode blocks. In the midstream, specialized refractory and carbon producers refine and machine the blocks to precise specifications, ensuring compatibility with modern smelting cell designs. Downstream, the primary consumer base is the aluminum industry, where cathode blocks are critical consumables for large-scale electrolytic reduction plants. Because smelters typically operate continuously for years, cathode quality directly influences energy efficiency, cell

life, and overall production costs, making supplier relationships and product reliability strategically important.

Key market drivers include the steady global demand for primary aluminum, driven by construction, automotive lightweighting, aerospace, packaging, and renewable energy sectors. The push for energy efficiency and longer cell life in aluminum smelting is encouraging the adoption of higher-quality, graphitized cathode blocks, which offer better performance and lower long-term operating costs. At the same time, environmental regulations are pressuring producers to reduce emissions during carbon material processing, leading to investments in cleaner technologies. As aluminum demand continues to expand globally, particularly in emerging economies, the cathode block market is expected to see steady growth, with opportunities for advanced producers to differentiate through higher performance and sustainability.

This report studies the global Cathode Block production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Cathode Block total production and demand, 2021-2032, (K MT)

Global Cathode Block total production value, 2021-2032, (USD Million)

Global Cathode Block production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Cathode Block consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Cathode Block domestic production, consumption, key domestic manufacturers and share

Global Cathode Block production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Cathode Block production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Cathode Block production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Cathode Block 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 Tokai COBEX, SEC Carbon, Carbone Savoie, Ukrainsky Grafit, ENERGOPROM Group, Chalco, Wanji Holding Group Graphite Products, Guangxi Qiangqiang Carbon, Bawtry Carbon, Aohui Carbon, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cathode Block market

Detailed Segmentation:

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

Global Cathode Block Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cathode Block Market, Segmentation by Type:

Semi-graphitic Type

Graphitic Type

Graphitized Type

Global Cathode Block Market, Segmentation by Feature:

Standard Type

High-conductivity Type

Permeation-resistant Type

Sodium-swelling-resistant Type

Global Cathode Block Market, Segmentation by Installation Location:

Side Carbon Blocks

Bottom Carbon Blocks

Global Cathode Block Market, Segmentation by Application:

Less Than 200 KA

200-300 KA

More Than 300 KA

Companies Profiled:

Tokai COBEX

SEC Carbon

Carbone Savoie

Ukrainsky Grafit

ENERGOPROM Group

Chalco

Wanji Holding Group Graphite Products

Guangxi Qiangqiang Carbon

Bawtry Carbon

Aohui Carbon

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Cathode Block Production Value by Manufacturer (2021-2026)

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

(2021-2026)

4.4.3 United States Based Manufacturers Cathode Block Production (2021-2026)

4.5 China Based Cathode Block Manufacturers and Market Share

4.5.1 China Based Cathode Block Manufacturers, Headquarters and Production Site
(Province, Country)

4.5.2 China Based Manufacturers Cathode Block Production Value (2021-2026)

4.5.3 China Based Manufacturers Cathode Block Production (2021-2026)

4.6 Rest of World Based Cathode Block Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Cathode Block Manufacturers, Headquarters and
Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Cathode Block Production Value
(2021-2026)

4.6.3 Rest of World Based Manufacturers Cathode Block Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Cathode Block Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Semi-graphitic Type

5.2.2 Graphitic Type

5.2.3 Graphitized Type

5.3 Market Segment by Type

5.3.1 World Cathode Block Production by Type (2021-2032)

5.3.2 World Cathode Block Production Value by Type (2021-2032)

5.3.3 World Cathode Block Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FEATURE

6.1 World Cathode Block Market Size Overview by Feature: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Feature

6.2.1 Standard Type

6.2.2 High-conductivity Type

6.2.3 Permeation-resistant Type

6.2.4 Sodium-swelling-resistant Type

6.3 Market Segment by Feature

6.3.1 World Cathode Block Production by Feature (2021-2032)

6.3.2 World Cathode Block Production Value by Feature (2021-2032)

6.3.3 World Cathode Block Average Price by Feature (2021-2032)

7 MARKET ANALYSIS BY INSTALLATION LOCATION

7.1 World Cathode Block Market Size Overview by Installation Location: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Installation Location

7.2.1 Side Carbon Blocks

7.2.2 Bottom Carbon Blocks

7.3 Market Segment by Installation Location

7.3.1 World Cathode Block Production by Installation Location (2021-2032)

7.3.2 World Cathode Block Production Value by Installation Location (2021-2032)

7.3.3 World Cathode Block Average Price by Installation Location (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Cathode Block Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Less Than 200 KA

8.2.2 200-300 KA

8.2.3 More Than 300 KA

8.3 Market Segment by Application

8.3.1 World Cathode Block Production by Application (2021-2032)

8.3.2 World Cathode Block Production Value by Application (2021-2032)

8.3.3 World Cathode Block Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Tokai COBEX

9.1.1 Tokai COBEX Details

9.1.2 Tokai COBEX Major Business

9.1.3 Tokai COBEX Cathode Block Product and Services

9.1.4 Tokai COBEX Cathode Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Tokai COBEX Recent Developments/Updates

9.1.6 Tokai COBEX Competitive Strengths & Weaknesses

9.2 SEC Carbon

9.2.1 SEC Carbon Details

9.2.2 SEC Carbon Major Business

9.2.3 SEC Carbon Cathode Block Product and Services

9.2.4 SEC Carbon Cathode Block Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.2.5 SEC Carbon Recent Developments/Updates

9.2.6 SEC Carbon Competitive Strengths & Weaknesses

9.3 Carbone Savoie

9.3.1 Carbone Savoie Details

9.3.2 Carbone Savoie Major Business

9.3.3 Carbone Savoie Cathode Block Product and Services

9.3.4 Carbone Savoie Cathode Block Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.3.5 Carbone Savoie Recent Developments/Updates

9.3.6 Carbone Savoie Competitive Strengths & Weaknesses

9.4 Ukrainsky Grafit

9.4.1 Ukrainsky Grafit Details

9.4.2 Ukrainsky Grafit Major Business

9.4.3 Ukrainsky Grafit Cathode Block Product and Services

9.4.4 Ukrainsky Grafit Cathode Block Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.4.5 Ukrainsky Grafit Recent Developments/Updates

9.4.6 Ukrainsky Grafit Competitive Strengths & Weaknesses

9.5 ENERGOPROM Group

9.5.1 ENERGOPROM Group Details

9.5.2 ENERGOPROM Group Major Business

9.5.3 ENERGOPROM Group Cathode Block Product and Services

9.5.4 ENERGOPROM Group Cathode Block Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.5.5 ENERGOPROM Group Recent Developments/Updates

9.5.6 ENERGOPROM Group Competitive Strengths & Weaknesses

9.6 Chalco

9.6.1 Chalco Details

9.6.2 Chalco Major Business

9.6.3 Chalco Cathode Block Product and Services

9.6.4 Chalco Cathode Block Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.6.5 Chalco Recent Developments/Updates

9.6.6 Chalco Competitive Strengths & Weaknesses

9.7 Wanji Holding Group Graphite Products

9.7.1 Wanji Holding Group Graphite Products Details

9.7.2 Wanji Holding Group Graphite Products Major Business

9.7.3 Wanji Holding Group Graphite Products Cathode Block Product and Services

9.7.4 Wanji Holding Group Graphite Products Cathode Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Wanji Holding Group Graphite Products Recent Developments/Updates

9.7.6 Wanji Holding Group Graphite Products Competitive Strengths & Weaknesses

9.8 Guangxi Qiangqiang Carbon

9.8.1 Guangxi Qiangqiang Carbon Details

9.8.2 Guangxi Qiangqiang Carbon Major Business

9.8.3 Guangxi Qiangqiang Carbon Cathode Block Product and Services

9.8.4 Guangxi Qiangqiang Carbon Cathode Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Guangxi Qiangqiang Carbon Recent Developments/Updates

9.8.6 Guangxi Qiangqiang Carbon Competitive Strengths & Weaknesses

9.9 Bawtry Carbon

9.9.1 Bawtry Carbon Details

9.9.2 Bawtry Carbon Major Business

9.9.3 Bawtry Carbon Cathode Block Product and Services

9.9.4 Bawtry Carbon Cathode Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Bawtry Carbon Recent Developments/Updates

9.9.6 Bawtry Carbon Competitive Strengths & Weaknesses

9.10 Aohui Carbon

9.10.1 Aohui Carbon Details

9.10.2 Aohui Carbon Major Business

9.10.3 Aohui Carbon Cathode Block Product and Services

9.10.4 Aohui Carbon Cathode Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Aohui Carbon Recent Developments/Updates

9.10.6 Aohui Carbon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Cathode Block Industry Chain

10.2 Cathode Block Upstream Analysis

10.2.1 Cathode Block Core Raw Materials

10.2.2 Main Manufacturers of Cathode Block Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Cathode Block Production Mode

10.6 Cathode Block Procurement Model

10.7 Cathode Block Industry Sales Model and Sales Channels

10.7.1 Cathode Block Sales Model

10.7.2 Cathode Block Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Cathode Block Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Cathode Block Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Cathode Block Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Cathode Block Production Value Market Share by Region (2021-2026)
- Table 5. World Cathode Block Production Value Market Share by Region (2027-2032)
- Table 6. World Cathode Block Production by Region (2021-2026) & (K MT)
- Table 7. World Cathode Block Production by Region (2027-2032) & (K MT)
- Table 8. World Cathode Block Production Market Share by Region (2021-2026)
- Table 9. World Cathode Block Production Market Share by Region (2027-2032)
- Table 10. World Cathode Block Average Price by Region (2021-2026) & (USD/MT)
- Table 11. World Cathode Block Average Price by Region (2027-2032) & (USD/MT)
- Table 12. Cathode Block Major Market Trends
- Table 13. World Cathode Block Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K MT)
- Table 14. World Cathode Block Consumption by Region (2021-2026) & (K MT)
- Table 15. World Cathode Block Consumption Forecast by Region (2027-2032) & (K MT)
- Table 16. World Cathode Block Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Cathode Block Producers in 2025
- Table 18. World Cathode Block Production by Manufacturer (2021-2026) & (K MT)
- Table 19. Production Market Share of Key Cathode Block Producers in 2025
- Table 20. World Cathode Block Average Price by Manufacturer (2021-2026) & (USD/MT)
- Table 21. Global Cathode Block Company Evaluation Quadrant
- Table 22. World Cathode Block Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Cathode Block Production Site of Key Manufacturer
- Table 24. Cathode Block Market: Company Product Type Footprint
- Table 25. Cathode Block Market: Company Product Application Footprint
- Table 26. Cathode Block Competitive Factors
- Table 27. Cathode Block New Entrant and Capacity Expansion Plans
- Table 28. Cathode Block Mergers & Acquisitions Activity
- Table 29. United States VS China Cathode Block Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cathode Block Production Comparison, (2021 & 2025 & 2032) & (K MT)

Table 31. United States VS China Cathode Block Consumption Comparison, (2021 & 2025 & 2032) & (K MT)

Table 32. United States Based Cathode Block Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cathode Block Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cathode Block Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cathode Block Production (2021-2026) & (K MT)

Table 36. United States Based Manufacturers Cathode Block Production Market Share (2021-2026)

Table 37. China Based Cathode Block Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cathode Block Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cathode Block Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cathode Block Production, (2021-2026) & (K MT)

Table 41. China Based Manufacturers Cathode Block Production Market Share (2021-2026)

Table 42. Rest of World Based Cathode Block Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cathode Block Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cathode Block Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cathode Block Production, (2021-2026) & (K MT)

Table 46. Rest of World Based Manufacturers Cathode Block Production Market Share (2021-2026)

Table 47. World Cathode Block Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Cathode Block Production by Type (2021-2026) & (K MT)

Table 49. World Cathode Block Production by Type (2027-2032) & (K MT)

Table 50. World Cathode Block Production Value by Type (2021-2026) & (USD Million)

Table 51. World Cathode Block Production Value by Type (2027-2032) & (USD Million)

Table 52. World Cathode Block Average Price by Type (2021-2026) & (USD/MT)

Table 53. World Cathode Block Average Price by Type (2027-2032) & (USD/MT)

Table 54. World Cathode Block Production Value by Feature, (USD Million), 2021 & 2025 & 2032

Table 55. World Cathode Block Production by Feature (2021-2026) & (K MT)

Table 56. World Cathode Block Production by Feature (2027-2032) & (K MT)

Table 57. World Cathode Block Production Value by Feature (2021-2026) & (USD Million)

Table 58. World Cathode Block Production Value by Feature (2027-2032) & (USD Million)

Table 59. World Cathode Block Average Price by Feature (2021-2026) & (USD/MT)

Table 60. World Cathode Block Average Price by Feature (2027-2032) & (USD/MT)

Table 61. World Cathode Block Production Value by Installation Location, (USD Million), 2021 & 2025 & 2032

Table 62. World Cathode Block Production by Installation Location (2021-2026) & (K MT)

Table 63. World Cathode Block Production by Installation Location (2027-2032) & (K MT)

Table 64. World Cathode Block Production Value by Installation Location (2021-2026) & (USD Million)

Table 65. World Cathode Block Production Value by Installation Location (2027-2032) & (USD Million)

Table 66. World Cathode Block Average Price by Installation Location (2021-2026) & (USD/MT)

Table 67. World Cathode Block Average Price by Installation Location (2027-2032) & (USD/MT)

Table 68. World Cathode Block Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Cathode Block Production by Application (2021-2026) & (K MT)

Table 70. World Cathode Block Production by Application (2027-2032) & (K MT)

Table 71. World Cathode Block Production Value by Application (2021-2026) & (USD Million)

Table 72. World Cathode Block Production Value by Application (2027-2032) & (USD Million)

Table 73. World Cathode Block Average Price by Application (2021-2026) & (USD/MT)

Table 74. World Cathode Block Average Price by Application (2027-2032) & (USD/MT)

Table 75. Tokai COBEX Basic Information, Manufacturing Base and Competitors

Table 76. Tokai COBEX Major Business

Table 77. Tokai COBEX Cathode Block Product and Services

Table 78. Tokai COBEX Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Tokai COBEX Recent Developments/Updates

Table 80. Tokai COBEX Competitive Strengths & Weaknesses

Table 81. SEC Carbon Basic Information, Manufacturing Base and Competitors

Table 82. SEC Carbon Major Business

Table 83. SEC Carbon Cathode Block Product and Services

Table 84. SEC Carbon Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. SEC Carbon Recent Developments/Updates

Table 86. SEC Carbon Competitive Strengths & Weaknesses

Table 87. Carbone Savoie Basic Information, Manufacturing Base and Competitors

Table 88. Carbone Savoie Major Business

Table 89. Carbone Savoie Cathode Block Product and Services

Table 90. Carbone Savoie Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Carbone Savoie Recent Developments/Updates

Table 92. Carbone Savoie Competitive Strengths & Weaknesses

Table 93. Ukrainsky Grafit Basic Information, Manufacturing Base and Competitors

Table 94. Ukrainsky Grafit Major Business

Table 95. Ukrainsky Grafit Cathode Block Product and Services

Table 96. Ukrainsky Grafit Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Ukrainsky Grafit Recent Developments/Updates

Table 98. Ukrainsky Grafit Competitive Strengths & Weaknesses

Table 99. ENERGOPROM Group Basic Information, Manufacturing Base and Competitors

Table 100. ENERGOPROM Group Major Business

Table 101. ENERGOPROM Group Cathode Block Product and Services

Table 102. ENERGOPROM Group Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ENERGOPROM Group Recent Developments/Updates

Table 104. ENERGOPROM Group Competitive Strengths & Weaknesses

Table 105. Chalco Basic Information, Manufacturing Base and Competitors

Table 106. Chalco Major Business

Table 107. Chalco Cathode Block Product and Services

Table 108. Chalco Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Chalco Recent Developments/Updates

Table 110. Chalco Competitive Strengths & Weaknesses

Table 111. Wanji Holding Group Graphite Products Basic Information, Manufacturing Base and Competitors

Table 112. Wanji Holding Group Graphite Products Major Business

Table 113. Wanji Holding Group Graphite Products Cathode Block Product and Services

Table 114. Wanji Holding Group Graphite Products Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Wanji Holding Group Graphite Products Recent Developments/Updates

Table 116. Wanji Holding Group Graphite Products Competitive Strengths & Weaknesses

Table 117. Guangxi Qiangqiang Carbon Basic Information, Manufacturing Base and Competitors

Table 118. Guangxi Qiangqiang Carbon Major Business

Table 119. Guangxi Qiangqiang Carbon Cathode Block Product and Services

Table 120. Guangxi Qiangqiang Carbon Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Guangxi Qiangqiang Carbon Recent Developments/Updates

Table 122. Guangxi Qiangqiang Carbon Competitive Strengths & Weaknesses

Table 123. Bawtry Carbon Basic Information, Manufacturing Base and Competitors

Table 124. Bawtry Carbon Major Business

Table 125. Bawtry Carbon Cathode Block Product and Services

Table 126. Bawtry Carbon Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Bawtry Carbon Recent Developments/Updates

Table 128. Bawtry Carbon Competitive Strengths & Weaknesses

Table 129. Aohui Carbon Basic Information, Manufacturing Base and Competitors

Table 130. Aohui Carbon Major Business

Table 131. Aohui Carbon Cathode Block Product and Services

Table 132. Aohui Carbon Cathode Block Production (K MT), Price (USD/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Aohui Carbon Recent Developments/Updates

Table 134. Aohui Carbon Competitive Strengths & Weaknesses

Table 135. Global Key Players of Cathode Block Upstream (Raw Materials)

Table 136. Global Cathode Block Typical Customers

Table 137. Cathode Block Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Cathode Block Picture

Figure 2. World Cathode Block Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cathode Block Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cathode Block Production (2021-2032) & (K MT)

Figure 5. World Cathode Block Average Price (2021-2032) & (USD/MT)

Figure 6. World Cathode Block Production Value Market Share by Region (2021-2032)

Figure 7. World Cathode Block Production Market Share by Region (2021-2032)

Figure 8. North America Cathode Block Production (2021-2032) & (K MT)

Figure 9. Europe Cathode Block Production (2021-2032) & (K MT)

Figure 10. China Cathode Block Production (2021-2032) & (K MT)

Figure 11. Japan Cathode Block Production (2021-2032) & (K MT)

Figure 12. Cathode Block Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Cathode Block Consumption (2021-2032) & (K MT)

Figure 15. World Cathode Block Consumption Market Share by Region (2021-2032)

Figure 16. United States Cathode Block Consumption (2021-2032) & (K MT)

Figure 17. China Cathode Block Consumption (2021-2032) & (K MT)

Figure 18. Europe Cathode Block Consumption (2021-2032) & (K MT)

Figure 19. Japan Cathode Block Consumption (2021-2032) & (K MT)

Figure 20. South Korea Cathode Block Consumption (2021-2032) & (K MT)

Figure 21. ASEAN Cathode Block Consumption (2021-2032) & (K MT)

Figure 22. India Cathode Block Consumption (2021-2032) & (K MT)

Figure 23. Producer Shipments of Cathode Block by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Cathode Block Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Cathode Block Markets in 2025

Figure 26. United States VS China: Cathode Block Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Cathode Block Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Cathode Block Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Cathode Block Production Market Share 2025

Figure 30. China Based Manufacturers Cathode Block Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Cathode Block Production Market Share 2025

Figure 32. World Cathode Block Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Cathode Block Production Value Market Share by Type in 2025

Figure 34. Semi-graphitic Type

Figure 35. Graphitic Type

Figure 36. Graphitized Type

Figure 37. World Cathode Block Production Market Share by Type (2021-2032)

Figure 38. World Cathode Block Production Value Market Share by Type (2021-2032)

Figure 39. World Cathode Block Average Price by Type (2021-2032) & (USD/MT)

Figure 40. World Cathode Block Production Value by Feature, (USD Million), 2021 & 2025 & 2032

Figure 41. World Cathode Block Production Value Market Share by Feature in 2025

Figure 42. Standard Type

Figure 43. High-conductivity Type

Figure 44. Permeation-resistant Type

Figure 45. Sodium-swelling-resistant Type

Figure 46. World Cathode Block Production Market Share by Feature (2021-2032)

Figure 47. World Cathode Block Production Value Market Share by Feature (2021-2032)

Figure 48. World Cathode Block Average Price by Feature (2021-2032) & (USD/MT)

Figure 49. World Cathode Block Production Value by Installation Location, (USD Million), 2021 & 2025 & 2032

Figure 50. World Cathode Block Production Value Market Share by Installation Location in 2025

Figure 51. Side Carbon Blocks

Figure 52. Bottom Carbon Blocks

Figure 53. World Cathode Block Production Market Share by Installation Location (2021-2032)

Figure 54. World Cathode Block Production Value Market Share by Installation Location (2021-2032)

Figure 55. World Cathode Block Average Price by Installation Location (2021-2032) & (USD/MT)

Figure 56. World Cathode Block Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Cathode Block Production Value Market Share by Application in 2025

Figure 58. Less Than 200 KA

Figure 59. 200-300 KA

Figure 60. More Than 300 KA

Figure 61. World Cathode Block Production Market Share by Application (2021-2032)

Figure 62. World Cathode Block Production Value Market Share by Application
(2021-2032)

Figure 63. World Cathode Block Average Price by Application (2021-2032) & (USD/MT)

Figure 64. Cathode Block Industry Chain

Figure 65. Cathode Block Procurement Model

Figure 66. Cathode Block Sales Model

Figure 67. Cathode Block Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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