

Global Microporous Carbon Block Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microporous Carbon Block market size is expected to reach \$ 289 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032). Microporous Carbon Block is a high-performance carbonaceous refractory material made from high-quality electrically calcined anthracite, artificial graphite, and coal tar pitch through scientific formulation and refined processes. Its core characteristic lies in its uniformly distributed micron-sized pore structure, which effectively resists molten iron erosion, alkali metal penetration, and oxidation reactions at high temperatures, while maintaining high thermal conductivity and structural stability. This material is mainly used in key components such as the blast furnace hearth and bottom, aiming to extend the blast furnace's service life, improve operational safety and production efficiency, and is an important component of modern blast furnace longevity technology. The unit price of Microporous Carbon Block is typically around US\$2,000 per ton, with industry gross margins usually between 15% and 25%.

The upstream supply chain revolves around key raw materials, primarily including high-purity electrically calcined anthracite, dense artificial graphite, and coal tar pitch as a binder, while also relying on various functional additives to adjust the material's microscopic properties. The quality and stability of the raw materials directly determine the pore size distribution, erosion resistance, and thermal conductivity of the final product. The downstream supply chain is highly focused on the steel smelting industry, with products primarily used in the construction and overhaul of large and medium-sized blast furnaces, particularly emphasizing the reinforcement of vulnerable components such as the hearth and bottom. Customers are mainly large steel companies, whose needs extend beyond material procurement to include in-depth cooperation in technical consulting, furnace design, and post-construction maintenance services. The entire supply chain is characterized by upstream technology intensification and downstream demand specialization; its collaborative efficiency and innovation capabilities are crucial

foundations for achieving the goal of extending blast furnace lifespan.

The development of the Micro-Pore Carbon Block market is closely linked to the transformation and upgrading of the steel industry and the demand for longer blast furnace lifespans. Currently, as the steel industry continues to pursue higher production efficiency and resource utilization, the performance optimization and technological innovation of Microporous Carbon Blocks, as a key material for blast furnace linings, have become a focus of industry attention. Market competition is gradually shifting from single-product supply to the provision of comprehensive solutions, with companies possessing technological accumulation and process advantages dominating the market. In the future, under the trend of green and low-carbon development, Microporous Carbon Blocks need to further balance high performance and environmental protection requirements, while adapting to the potential demands of new processes such as hydrogen metallurgy. Collaborative innovation across the upstream and downstream of the industrial chain and independent control of key raw materials will become crucial for companies to build core competitiveness. Overall, this market is evolving towards technological refinement, systematized services, and a robust supply chain.

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

This report is a detailed and comprehensive analysis of the world market for Microporous Carbon 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 Microporous Carbon Block that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microporous Carbon Block total production and demand, 2021-2032, (Tons)

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

Global Microporous Carbon Block production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Microporous Carbon Block consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Microporous Carbon Block production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Microporous Carbon Block production by Application Area, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Microporous Carbon Block production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Microporous Carbon 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, NDK, SGL Carbon, UKRGRAFIT, TYK, Fangda Carbon New Material, WISDRI Handan Wupeng Furnace Lining New Material, Zhengzhou RongSheng Refractory, Ningxia Wenshun New Carbon Products, Zhengzhou Kerui(Group) Refractory, 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 Microporous Carbon Block 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 Application Area, 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 Microporous Carbon Block Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microporous Carbon Block Market, Segmentation by Application Area:

Hearth

Bottom

Others

Global Microporous Carbon Block Market, Segmentation by Downstream Customer:

State-owned Steel Groups

Private Steel Enterprises

Global Microporous Carbon Block Market, Segmentation by Manufacturing Form:

Standard

Customized

Global Microporous Carbon Block Market, Segmentation by Application:

Foundry

Smelter

Others

Companies Profiled:

Tokai COBEX

NDK

SGL Carbon

UKRGRAFIT

TYK

Fangda Carbon New Material

WISDRI Handan Wupeng Furnace Lining New Material

Zhengzhou RongSheng Refractory

Ningxia Wenshun New Carbon Products

Zhengzhou Kerui(Group) Refractory

Zhengzhou Baoshi Refractory Material

Tyreen

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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

4.4.2 United States Based Manufacturers Microporous Carbon Block Production Value (2021-2026)

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

4.5 China Based Microporous Carbon Block Manufacturers and Market Share

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

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

4.5.3 China Based Manufacturers Microporous Carbon Block Production (2021-2026)

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

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

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

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

5 MARKET ANALYSIS BY APPLICATION AREA

5.1 World Microporous Carbon Block Market Size Overview by Application Area: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Application Area

5.2.1 Hearth

5.2.2 Bottom

5.2.3 Others

5.3 Market Segment by Application Area

5.3.1 World Microporous Carbon Block Production by Application Area (2021-2032)

5.3.2 World Microporous Carbon Block Production Value by Application Area (2021-2032)

5.3.3 World Microporous Carbon Block Average Price by Application Area (2021-2032)

6 MARKET ANALYSIS BY DOWNSTREAM CUSTOMER

6.1 World Microporous Carbon Block Market Size Overview by Downstream Customer: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Downstream Customer

6.2.1 State-owned Steel Groups

6.2.2 Private Steel Enterprises

6.3 Market Segment by Downstream Customer

6.3.1 World Microporous Carbon Block Production by Downstream Customer
(2021-2032)

6.3.2 World Microporous Carbon Block Production Value by Downstream Customer
(2021-2032)

6.3.3 World Microporous Carbon Block Average Price by Downstream Customer
(2021-2032)

7 MARKET ANALYSIS BY MANUFACTURING FORM

7.1 World Microporous Carbon Block Market Size Overview by Manufacturing Form:
2021 VS 2025 VS 2032

7.2 Segment Introduction by Manufacturing Form

7.2.1 Standard

7.2.2 Customized

7.3 Market Segment by Manufacturing Form

7.3.1 World Microporous Carbon Block Production by Manufacturing Form
(2021-2032)

7.3.2 World Microporous Carbon Block Production Value by Manufacturing Form
(2021-2032)

7.3.3 World Microporous Carbon Block Average Price by Manufacturing Form
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

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

8.2 Segment Introduction by Application

8.2.1 Foundry

8.2.2 Smelter

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Microporous Carbon Block Production by Application (2021-2032)

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

8.3.3 World Microporous Carbon 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 Microporous Carbon Block Product and Services

9.1.4 Tokai COBEX Microporous Carbon 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 NDK

9.2.1 NDK Details

9.2.2 NDK Major Business

9.2.3 NDK Microporous Carbon Block Product and Services

9.2.4 NDK Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 NDK Recent Developments/Updates

9.2.6 NDK Competitive Strengths & Weaknesses

9.3 SGL Carbon

9.3.1 SGL Carbon Details

9.3.2 SGL Carbon Major Business

9.3.3 SGL Carbon Microporous Carbon Block Product and Services

9.3.4 SGL Carbon Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 SGL Carbon Recent Developments/Updates

9.3.6 SGL Carbon Competitive Strengths & Weaknesses

9.4 UKRGRAFIT

9.4.1 UKRGRAFIT Details

9.4.2 UKRGRAFIT Major Business

9.4.3 UKRGRAFIT Microporous Carbon Block Product and Services

9.4.4 UKRGRAFIT Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 UKRGRAFIT Recent Developments/Updates

9.4.6 UKRGRAFIT Competitive Strengths & Weaknesses

9.5 TYK

9.5.1 TYK Details

9.5.2 TYK Major Business

9.5.3 TYK Microporous Carbon Block Product and Services

9.5.4 TYK Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 TYK Recent Developments/Updates

- 9.5.6 TYK Competitive Strengths & Weaknesses
- 9.6 Fangda Carbon New Material
 - 9.6.1 Fangda Carbon New Material Details
 - 9.6.2 Fangda Carbon New Material Major Business
 - 9.6.3 Fangda Carbon New Material Microporous Carbon Block Product and Services
 - 9.6.4 Fangda Carbon New Material Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Fangda Carbon New Material Recent Developments/Updates
 - 9.6.6 Fangda Carbon New Material Competitive Strengths & Weaknesses
- 9.7 WISDRI Handan Wupeng Furnace Lining New Material
 - 9.7.1 WISDRI Handan Wupeng Furnace Lining New Material Details
 - 9.7.2 WISDRI Handan Wupeng Furnace Lining New Material Major Business
 - 9.7.3 WISDRI Handan Wupeng Furnace Lining New Material Microporous Carbon Block Product and Services
 - 9.7.4 WISDRI Handan Wupeng Furnace Lining New Material Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 WISDRI Handan Wupeng Furnace Lining New Material Recent Developments/Updates
 - 9.7.6 WISDRI Handan Wupeng Furnace Lining New Material Competitive Strengths & Weaknesses
- 9.8 Zhengzhou RongSheng Refractory
 - 9.8.1 Zhengzhou RongSheng Refractory Details
 - 9.8.2 Zhengzhou RongSheng Refractory Major Business
 - 9.8.3 Zhengzhou RongSheng Refractory Microporous Carbon Block Product and Services
 - 9.8.4 Zhengzhou RongSheng Refractory Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Zhengzhou RongSheng Refractory Recent Developments/Updates
 - 9.8.6 Zhengzhou RongSheng Refractory Competitive Strengths & Weaknesses
- 9.9 Ningxia Wenshun New Carbon Products
 - 9.9.1 Ningxia Wenshun New Carbon Products Details
 - 9.9.2 Ningxia Wenshun New Carbon Products Major Business
 - 9.9.3 Ningxia Wenshun New Carbon Products Microporous Carbon Block Product and Services
 - 9.9.4 Ningxia Wenshun New Carbon Products Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Ningxia Wenshun New Carbon Products Recent Developments/Updates
 - 9.9.6 Ningxia Wenshun New Carbon Products Competitive Strengths & Weaknesses
- 9.10 Zhengzhou Kerui(Group) Refractory

- 9.10.1 Zhengzhou Kerui(Group) Refractory Details
- 9.10.2 Zhengzhou Kerui(Group) Refractory Major Business
- 9.10.3 Zhengzhou Kerui(Group) Refractory Microporous Carbon Block Product and Services
- 9.10.4 Zhengzhou Kerui(Group) Refractory Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Zhengzhou Kerui(Group) Refractory Recent Developments/Updates
- 9.10.6 Zhengzhou Kerui(Group) Refractory Competitive Strengths & Weaknesses
- 9.11 Zhengzhou Baoshi Refractory Material
 - 9.11.1 Zhengzhou Baoshi Refractory Material Details
 - 9.11.2 Zhengzhou Baoshi Refractory Material Major Business
 - 9.11.3 Zhengzhou Baoshi Refractory Material Microporous Carbon Block Product and Services
 - 9.11.4 Zhengzhou Baoshi Refractory Material Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Zhengzhou Baoshi Refractory Material Recent Developments/Updates
 - 9.11.6 Zhengzhou Baoshi Refractory Material Competitive Strengths & Weaknesses
- 9.12 Tyreen
 - 9.12.1 Tyreen Details
 - 9.12.2 Tyreen Major Business
 - 9.12.3 Tyreen Microporous Carbon Block Product and Services
 - 9.12.4 Tyreen Microporous Carbon Block Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Tyreen Recent Developments/Updates
 - 9.12.6 Tyreen Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Microporous Carbon Block Industry Chain
- 10.2 Microporous Carbon Block Upstream Analysis
 - 10.2.1 Microporous Carbon Block Core Raw Materials
 - 10.2.2 Main Manufacturers of Microporous Carbon Block Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Microporous Carbon Block Production Mode
- 10.6 Microporous Carbon Block Procurement Model
- 10.7 Microporous Carbon Block Industry Sales Model and Sales Channels
 - 10.7.1 Microporous Carbon Block Sales Model
 - 10.7.2 Microporous Carbon 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 Microporous Carbon Block Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Microporous Carbon Block Production Value by Region (2021-2026) & (USD Million)

Table 3. World Microporous Carbon Block Production Value by Region (2027-2032) & (USD Million)

Table 4. World Microporous Carbon Block Production Value Market Share by Region (2021-2026)

Table 5. World Microporous Carbon Block Production Value Market Share by Region (2027-2032)

Table 6. World Microporous Carbon Block Production by Region (2021-2026) & (Tons)

Table 7. World Microporous Carbon Block Production by Region (2027-2032) & (Tons)

Table 8. World Microporous Carbon Block Production Market Share by Region (2021-2026)

Table 9. World Microporous Carbon Block Production Market Share by Region (2027-2032)

Table 10. World Microporous Carbon Block Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Microporous Carbon Block Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Microporous Carbon Block Major Market Trends

Table 13. World Microporous Carbon Block Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Microporous Carbon Block Consumption by Region (2021-2026) & (Tons)

Table 15. World Microporous Carbon Block Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Microporous Carbon Block Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Microporous Carbon Block Producers in 2025

Table 18. World Microporous Carbon Block Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Microporous Carbon Block Producers in 2025

Table 20. World Microporous Carbon Block Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Microporous Carbon Block Company Evaluation Quadrant

Table 22. World Microporous Carbon Block Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Microporous Carbon Block Production Site of Key Manufacturer

Table 24. Microporous Carbon Block Market: Company Product Type Footprint

Table 25. Microporous Carbon Block Market: Company Product Application Footprint

Table 26. Microporous Carbon Block Competitive Factors

Table 27. Microporous Carbon Block New Entrant and Capacity Expansion Plans

Table 28. Microporous Carbon Block Mergers & Acquisitions Activity

Table 29. United States VS China Microporous Carbon Block Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Microporous Carbon Block Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Microporous Carbon Block Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

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

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

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

Table 35. United States Based Manufacturers Microporous Carbon Block Production (2021-2026) & (Tons)

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

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

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

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

Table 40. China Based Manufacturers Microporous Carbon Block Production, (2021-2026) & (Tons)

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

Table 42. Rest of World Based Microporous Carbon Block Manufacturers, Headquarters

and Production Site (State, Country)

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

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

Table 45. Rest of World Based Manufacturers Microporous Carbon Block Production, (2021-2026) & (Tons)

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

Table 47. World Microporous Carbon Block Production Value by Application Area, (USD Million), 2021 & 2025 & 2032

Table 48. World Microporous Carbon Block Production by Application Area (2021-2026) & (Tons)

Table 49. World Microporous Carbon Block Production by Application Area (2027-2032) & (Tons)

Table 50. World Microporous Carbon Block Production Value by Application Area (2021-2026) & (USD Million)

Table 51. World Microporous Carbon Block Production Value by Application Area (2027-2032) & (USD Million)

Table 52. World Microporous Carbon Block Average Price by Application Area (2021-2026) & (US\$/Ton)

Table 53. World Microporous Carbon Block Average Price by Application Area (2027-2032) & (US\$/Ton)

Table 54. World Microporous Carbon Block Production Value by Downstream Customer, (USD Million), 2021 & 2025 & 2032

Table 55. World Microporous Carbon Block Production by Downstream Customer (2021-2026) & (Tons)

Table 56. World Microporous Carbon Block Production by Downstream Customer (2027-2032) & (Tons)

Table 57. World Microporous Carbon Block Production Value by Downstream Customer (2021-2026) & (USD Million)

Table 58. World Microporous Carbon Block Production Value by Downstream Customer (2027-2032) & (USD Million)

Table 59. World Microporous Carbon Block Average Price by Downstream Customer (2021-2026) & (US\$/Ton)

Table 60. World Microporous Carbon Block Average Price by Downstream Customer (2027-2032) & (US\$/Ton)

Table 61. World Microporous Carbon Block Production Value by Manufacturing Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Microporous Carbon Block Production by Manufacturing Form (2021-2026) & (Tons)

Table 63. World Microporous Carbon Block Production by Manufacturing Form (2027-2032) & (Tons)

Table 64. World Microporous Carbon Block Production Value by Manufacturing Form (2021-2026) & (USD Million)

Table 65. World Microporous Carbon Block Production Value by Manufacturing Form (2027-2032) & (USD Million)

Table 66. World Microporous Carbon Block Average Price by Manufacturing Form (2021-2026) & (US\$/Ton)

Table 67. World Microporous Carbon Block Average Price by Manufacturing Form (2027-2032) & (US\$/Ton)

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

Table 69. World Microporous Carbon Block Production by Application (2021-2026) & (Tons)

Table 70. World Microporous Carbon Block Production by Application (2027-2032) & (Tons)

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

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

Table 73. World Microporous Carbon Block Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Microporous Carbon Block Average Price by Application (2027-2032) & (US\$/Ton)

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

Table 76. Tokai COBEX Major Business

Table 77. Tokai COBEX Microporous Carbon Block Product and Services

Table 78. Tokai COBEX Microporous Carbon Block Production (Tons), Price (US\$/Ton), 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. NDK Basic Information, Manufacturing Base and Competitors

Table 82. NDK Major Business

Table 83. NDK Microporous Carbon Block Product and Services

Table 84. NDK Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. NDK Recent Developments/Updates

- Table 86. NDK Competitive Strengths & Weaknesses
- Table 87. SGL Carbon Basic Information, Manufacturing Base and Competitors
- Table 88. SGL Carbon Major Business
- Table 89. SGL Carbon Microporous Carbon Block Product and Services
- Table 90. SGL Carbon Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. SGL Carbon Recent Developments/Updates
- Table 92. SGL Carbon Competitive Strengths & Weaknesses
- Table 93. UKRGRAFIT Basic Information, Manufacturing Base and Competitors
- Table 94. UKRGRAFIT Major Business
- Table 95. UKRGRAFIT Microporous Carbon Block Product and Services
- Table 96. UKRGRAFIT Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. UKRGRAFIT Recent Developments/Updates
- Table 98. UKRGRAFIT Competitive Strengths & Weaknesses
- Table 99. TYK Basic Information, Manufacturing Base and Competitors
- Table 100. TYK Major Business
- Table 101. TYK Microporous Carbon Block Product and Services
- Table 102. TYK Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. TYK Recent Developments/Updates
- Table 104. TYK Competitive Strengths & Weaknesses
- Table 105. Fangda Carbon New Material Basic Information, Manufacturing Base and Competitors
- Table 106. Fangda Carbon New Material Major Business
- Table 107. Fangda Carbon New Material Microporous Carbon Block Product and Services
- Table 108. Fangda Carbon New Material Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Fangda Carbon New Material Recent Developments/Updates
- Table 110. Fangda Carbon New Material Competitive Strengths & Weaknesses
- Table 111. WISDRI Handan Wupeng Furnace Lining New Material Basic Information, Manufacturing Base and Competitors
- Table 112. WISDRI Handan Wupeng Furnace Lining New Material Major Business
- Table 113. WISDRI Handan Wupeng Furnace Lining New Material Microporous Carbon Block Product and Services
- Table 114. WISDRI Handan Wupeng Furnace Lining New Material Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross

Margin and Market Share (2021-2026)

Table 115. WISDRI Handan Wupeng Furnace Lining New Material Recent Developments/Updates

Table 116. WISDRI Handan Wupeng Furnace Lining New Material Competitive Strengths & Weaknesses

Table 117. Zhengzhou RongSheng Refractory Basic Information, Manufacturing Base and Competitors

Table 118. Zhengzhou RongSheng Refractory Major Business

Table 119. Zhengzhou RongSheng Refractory Microporous Carbon Block Product and Services

Table 120. Zhengzhou RongSheng Refractory Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Zhengzhou RongSheng Refractory Recent Developments/Updates

Table 122. Zhengzhou RongSheng Refractory Competitive Strengths & Weaknesses

Table 123. Ningxia Wenshun New Carbon Products Basic Information, Manufacturing Base and Competitors

Table 124. Ningxia Wenshun New Carbon Products Major Business

Table 125. Ningxia Wenshun New Carbon Products Microporous Carbon Block Product and Services

Table 126. Ningxia Wenshun New Carbon Products Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Ningxia Wenshun New Carbon Products Recent Developments/Updates

Table 128. Ningxia Wenshun New Carbon Products Competitive Strengths & Weaknesses

Table 129. Zhengzhou Kerui(Group) Refractory Basic Information, Manufacturing Base and Competitors

Table 130. Zhengzhou Kerui(Group) Refractory Major Business

Table 131. Zhengzhou Kerui(Group) Refractory Microporous Carbon Block Product and Services

Table 132. Zhengzhou Kerui(Group) Refractory Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Zhengzhou Kerui(Group) Refractory Recent Developments/Updates

Table 134. Zhengzhou Kerui(Group) Refractory Competitive Strengths & Weaknesses

Table 135. Zhengzhou Baoshi Refractory Material Basic Information, Manufacturing Base and Competitors

Table 136. Zhengzhou Baoshi Refractory Material Major Business

Table 137. Zhengzhou Baoshi Refractory Material Microporous Carbon Block Product and Services

Table 138. Zhengzhou Baoshi Refractory Material Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Zhengzhou Baoshi Refractory Material Recent Developments/Updates

Table 140. Zhengzhou Baoshi Refractory Material Competitive Strengths & Weaknesses

Table 141. Tyreen Basic Information, Manufacturing Base and Competitors

Table 142. Tyreen Major Business

Table 143. Tyreen Microporous Carbon Block Product and Services

Table 144. Tyreen Microporous Carbon Block Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Tyreen Recent Developments/Updates

Table 146. Tyreen Competitive Strengths & Weaknesses

Table 147. Global Key Players of Microporous Carbon Block Upstream (Raw Materials)

Table 148. Global Microporous Carbon Block Typical Customers

Table 149. Microporous Carbon Block Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Microporous Carbon Block Picture

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

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

Figure 4. World Microporous Carbon Block Production (2021-2032) & (Tons)

Figure 5. World Microporous Carbon Block Average Price (2021-2032) & (US\$/Ton)

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

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

Figure 8. North America Microporous Carbon Block Production (2021-2032) & (Tons)

Figure 9. Europe Microporous Carbon Block Production (2021-2032) & (Tons)

Figure 10. China Microporous Carbon Block Production (2021-2032) & (Tons)

Figure 11. Japan Microporous Carbon Block Production (2021-2032) & (Tons)

Figure 12. Microporous Carbon Block Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Microporous Carbon Block Consumption (2021-2032) & (Tons)

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

Figure 16. United States Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 17. China Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 18. Europe Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 19. Japan Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 20. South Korea Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Microporous Carbon Block Consumption (2021-2032) & (Tons)

Figure 22. India Microporous Carbon Block Consumption (2021-2032) & (Tons)

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

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

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

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

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

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

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

Figure 30. China Based Manufacturers Microporous Carbon Block Production Market Share 2025

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

Figure 32. World Microporous Carbon Block Production Value by Application Area, (USD Million), 2021 & 2025 & 2032

Figure 33. World Microporous Carbon Block Production Value Market Share by Application Area in 2025

Figure 34. Hearth

Figure 35. Bottom

Figure 36. Others

Figure 37. World Microporous Carbon Block Production Market Share by Application Area (2021-2032)

Figure 38. World Microporous Carbon Block Production Value Market Share by Application Area (2021-2032)

Figure 39. World Microporous Carbon Block Average Price by Application Area (2021-2032) & (US\$/Ton)

Figure 40. World Microporous Carbon Block Production Value by Downstream Customer, (USD Million), 2021 & 2025 & 2032

Figure 41. World Microporous Carbon Block Production Value Market Share by Downstream Customer in 2025

Figure 42. State-owned Steel Groups

Figure 43. Private Steel Enterprises

Figure 44. World Microporous Carbon Block Production Market Share by Downstream Customer (2021-2032)

Figure 45. World Microporous Carbon Block Production Value Market Share by Downstream Customer (2021-2032)

Figure 46. World Microporous Carbon Block Average Price by Downstream Customer (2021-2032) & (US\$/Ton)

Figure 47. World Microporous Carbon Block Production Value by Manufacturing Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Microporous Carbon Block Production Value Market Share by Manufacturing Form in 2025

Figure 49. Standard

Figure 50. Customized

Figure 51. World Microporous Carbon Block Production Market Share by Manufacturing Form (2021-2032)

Figure 52. World Microporous Carbon Block Production Value Market Share by Manufacturing Form (2021-2032)

Figure 53. World Microporous Carbon Block Average Price by Manufacturing Form (2021-2032) & (US\$/Ton)

Figure 54. World Microporous Carbon Block Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Microporous Carbon Block Production Value Market Share by Application in 2025

Figure 56. Foundry

Figure 57. Smelter

Figure 58. Others

Figure 59. World Microporous Carbon Block Production Market Share by Application (2021-2032)

Figure 60. World Microporous Carbon Block Production Value Market Share by Application (2021-2032)

Figure 61. World Microporous Carbon Block Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Microporous Carbon Block Industry Chain

Figure 63. Microporous Carbon Block Procurement Model

Figure 64. Microporous Carbon Block Sales Model

Figure 65. Microporous Carbon Block Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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