

# Global High Thermal Conductivity Super Micropore Carbon Blocks Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Thermal Conductivity Super Micropore Carbon Blocks market size is expected to reach \$ 110 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

High Thermal Conductivity Super Micropore Carbon Block refers to carbon materials with specific geometric shapes that are made from anthracite, artificial graphite, and coal tar pitch as the main raw materials, with the addition of various additives, through batching, mixing, molding, calcination, and machining. These materials possess special properties such as low oxidation rate in blast furnaces, resistance to molten iron erosion, resistance to alkali corrosion, good thermal conductivity, and an average pore size of less than 0.1  $\mu$ m. The unit price of High Thermal Conductivity Super Micropore Carbon Blocks is typically around \$2,000-\$5000 per ton, with industry gross margins usually between 20% and 40%.

Upstream, High Thermal Conductivity Super Micropore Carbon Blocks rely on a raw-material chain centered on anthracite and petroleum coke or other carbon sources, artificial graphite or graphitizable carbon, coal tar pitch as the primary binder, and selected additives that tune oxidation resistance, alkali resistance, and microstructure, supported by suppliers of refractories-grade aggregates, binders, and machining consumables. Manufacturing sits in the midstream and is capability-driven, involving crushing and classification, precise batching and intensive mixing, high-pressure forming, controlled calcination and sometimes impregnation-based densification, followed by machining to tight dimensions and quality control focused on pore structure uniformity and service reliability. Downstream, products flow through refractory producers and furnace-lining integrators to end users mainly in blast furnace

ironmaking, where carbon blocks are procured either directly by steelmakers or via relining contractors as part of a complete hearth and bottom lining package, with demand shaped by furnace relining cycles, hearth life-extension strategies, and the availability of installation support and technical service during commissioning and campaign operation.

The high thermal conductivity super micropore carbon block market represents a premium subsegment where purchase decisions are driven by campaign life strategy and thermal management philosophy rather than material cost alone. These products sit at the intersection of two objectives that are often in tension, maintaining an ultra refined pore structure to suppress molten iron and slag penetration while enabling efficient heat transfer to support stable protective layer formation in the hearth. As a result, supplier competitiveness is defined by microstructure engineering capability, process control, and consistency across large blocks, because small variations in pore network, graphite content, and binder carbonization can translate into meaningful differences in operating stability and wear behavior. Demand is closely tied to new build and major reline cycles and is amplified when operators prioritize long campaign operation, tighter hearth temperature control, and reduced risk of unexpected hearth failure, making technical service, installation guidance, and performance track record as important as the block itself in winning contracts.

This report studies the global High Thermal Conductivity Super Micropore Carbon Blocks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Thermal Conductivity Super Micropore Carbon Blocks 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 High Thermal Conductivity Super Micropore Carbon Blocks that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global High Thermal Conductivity Super Micropore Carbon Blocks total production and demand, 2021-2032, (Tons)

Global High Thermal Conductivity Super Micropore Carbon Blocks total production value, 2021-2032, (USD Million)

Global High Thermal Conductivity Super Micropore Carbon Blocks production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Thermal Conductivity Super Micropore Carbon Blocks consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Thermal Conductivity Super Micropore Carbon Blocks domestic production, consumption, key domestic manufacturers and share

Global High Thermal Conductivity Super Micropore Carbon Blocks production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Thermal Conductivity Super Micropore Carbon Blocks production by Application Area, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Thermal Conductivity Super Micropore Carbon Blocks production by Blast Furnace Volume, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Thermal Conductivity Super Micropore Carbon Blocks 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, WISDRI Handan Wupeng Furnace Lining New Material, NDK, Fangda Carbon New Material, TYK, Zhengzhou Baoshi Refractory Material, Tyreen, Zhengzhou RongSheng Refractory, 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 High Thermal Conductivity Super Micropore Carbon Blocks 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 Blast Furnace Volume. 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 High Thermal Conductivity Super Micropore Carbon Blocks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Thermal Conductivity Super Micropore Carbon Blocks Market,  
Segmentation by Application Area:

Hearth

Bottom

Global High Thermal Conductivity Super Micropore Carbon Blocks Market,  
Segmentation by Downstream Customer:

State-owned Steel Groups

Private Steel Enterprises

Global High Thermal Conductivity Super Micropore Carbon Blocks Market,  
Segmentation by Manufacturing Form:

Standard

Customized

## Global High Thermal Conductivity Super Micropore Carbon Blocks Market, Segmentation by Blast Furnace Volume:

1000 m? Below

1000-2000 m?

2000 m? Above

### Companies Profiled:

Tokai COBEX

WISDRI Handan Wupeng Furnace Lining New Material

NDK

Fangda Carbon New Material

TYK

Zhengzhou Baoshi Refractory Material

Tyreen

Zhengzhou RongSheng Refractory

Zhengzhou Kerui(Group) Refractory

### Key Questions Answered:

1. How big is the global High Thermal Conductivity Super Micropore Carbon Blocks market?
2. What is the demand of the global High Thermal Conductivity Super Micropore Carbon Blocks market?
3. What is the year over year growth of the global High Thermal Conductivity Super Micropore Carbon Blocks market?
4. What is the production and production value of the global High Thermal Conductivity

Super Micropore Carbon Blocks market?

5. Who are the key producers in the global High Thermal Conductivity Super Micropore Carbon Blocks market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World High Thermal Conductivity Super Micropore Carbon Blocks Demand (2021-2032)
- 2.2 World High Thermal Conductivity Super Micropore Carbon Blocks Consumption by Region
  - 2.2.1 World High Thermal Conductivity Super Micropore Carbon Blocks Consumption

by Region (2021-2026)

2.2.2 World High Thermal Conductivity Super Micropore Carbon Blocks Consumption Forecast by Region (2027-2032)

2.3 United States High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.4 China High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.5 Europe High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.6 Japan High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.7 South Korea High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.8 ASEAN High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

2.9 India High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Manufacturer (2021-2026)

3.2 World High Thermal Conductivity Super Micropore Carbon Blocks Production by Manufacturer (2021-2026)

3.3 World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Manufacturer (2021-2026)

3.4 High Thermal Conductivity Super Micropore Carbon Blocks Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global High Thermal Conductivity Super Micropore Carbon Blocks Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for High Thermal Conductivity Super Micropore Carbon Blocks in 2025

3.5.3 Global Concentration Ratios (CR8) for High Thermal Conductivity Super Micropore Carbon Blocks in 2025

3.6 High Thermal Conductivity Super Micropore Carbon Blocks Market: Overall Company Footprint Analysis

3.6.1 High Thermal Conductivity Super Micropore Carbon Blocks Market: Region Footprint

3.6.2 High Thermal Conductivity Super Micropore Carbon Blocks Market: Company Product Type Footprint

3.6.3 High Thermal Conductivity Super Micropore Carbon Blocks 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: High Thermal Conductivity Super Micropore Carbon Blocks Production Value Comparison

4.1.1 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Comparison

4.2.1 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Consumption Comparison

4.3.1 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2026)

#### 4.5 China Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers and Market Share

4.5.1 China Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value (2021-2026)

4.5.3 China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2026)

#### 4.6 Rest of World Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2026)

### **5 MARKET ANALYSIS BY APPLICATION AREA**

5.1 World High Thermal Conductivity Super Micropore Carbon Blocks 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

5.3 Market Segment by Application Area

5.3.1 World High Thermal Conductivity Super Micropore Carbon Blocks Production by Application Area (2021-2032)

5.3.2 World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Application Area (2021-2032)

5.3.3 World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Application Area (2021-2032)

### **6 MARKET ANALYSIS BY DOWNSTREAM CUSTOMER**

6.1 World High Thermal Conductivity Super Micropore Carbon Blocks 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 High Thermal Conductivity Super Micropore Carbon Blocks Production by Downstream Customer (2021-2032)

6.3.2 World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Downstream Customer (2021-2032)

6.3.3 World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Downstream Customer (2021-2032)

## 7 MARKET ANALYSIS BY MANUFACTURING FORM

7.1 World High Thermal Conductivity Super Micropore Carbon Blocks 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 High Thermal Conductivity Super Micropore Carbon Blocks Production by Manufacturing Form (2021-2032)

7.3.2 World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Manufacturing Form (2021-2032)

7.3.3 World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Manufacturing Form (2021-2032)

## 8 MARKET ANALYSIS BY BLAST FURNACE VOLUME

8.1 World High Thermal Conductivity Super Micropore Carbon Blocks Market Size Overview by Blast Furnace Volume: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Blast Furnace Volume

8.2.1 1000 m<sup>3</sup> Below

8.2.2 1000-2000 m<sup>3</sup>

8.2.3 2000 m<sup>3</sup> Above

8.3 Market Segment by Blast Furnace Volume

8.3.1 World High Thermal Conductivity Super Micropore Carbon Blocks Production by Blast Furnace Volume (2021-2032)

8.3.2 World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Blast Furnace Volume (2021-2032)

8.3.3 World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Blast Furnace Volume (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 High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

9.1.4 Tokai COBEX High Thermal Conductivity Super Micropore Carbon Blocks 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 WISDRI Handan Wupeng Furnace Lining New Material

9.2.1 WISDRI Handan Wupeng Furnace Lining New Material Details

9.2.2 WISDRI Handan Wupeng Furnace Lining New Material Major Business

9.2.3 WISDRI Handan Wupeng Furnace Lining New Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

9.2.4 WISDRI Handan Wupeng Furnace Lining New Material High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 WISDRI Handan Wupeng Furnace Lining New Material Recent Developments/Updates

9.2.6 WISDRI Handan Wupeng Furnace Lining New Material Competitive Strengths & Weaknesses

### 9.3 NDK

9.3.1 NDK Details

9.3.2 NDK Major Business

9.3.3 NDK High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

9.3.4 NDK High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 NDK Recent Developments/Updates

9.3.6 NDK Competitive Strengths & Weaknesses

### 9.4 Fangda Carbon New Material

9.4.1 Fangda Carbon New Material Details

9.4.2 Fangda Carbon New Material Major Business

9.4.3 Fangda Carbon New Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

9.4.4 Fangda Carbon New Material High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 Fangda Carbon New Material Recent Developments/Updates
- 9.4.6 Fangda Carbon New Material Competitive Strengths & Weaknesses
- 9.5 TYK
  - 9.5.1 TYK Details
  - 9.5.2 TYK Major Business
  - 9.5.3 TYK High Thermal Conductivity Super Micropore Carbon Blocks Product and Services
  - 9.5.4 TYK High Thermal Conductivity Super Micropore Carbon Blocks 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 Zhengzhou Baoshi Refractory Material
  - 9.6.1 Zhengzhou Baoshi Refractory Material Details
  - 9.6.2 Zhengzhou Baoshi Refractory Material Major Business
  - 9.6.3 Zhengzhou Baoshi Refractory Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services
  - 9.6.4 Zhengzhou Baoshi Refractory Material High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Zhengzhou Baoshi Refractory Material Recent Developments/Updates
  - 9.6.6 Zhengzhou Baoshi Refractory Material Competitive Strengths & Weaknesses
- 9.7 Tyreen
  - 9.7.1 Tyreen Details
  - 9.7.2 Tyreen Major Business
  - 9.7.3 Tyreen High Thermal Conductivity Super Micropore Carbon Blocks Product and Services
  - 9.7.4 Tyreen High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Tyreen Recent Developments/Updates
  - 9.7.6 Tyreen 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 High Thermal Conductivity Super Micropore Carbon Blocks Product and Services
  - 9.8.4 Zhengzhou RongSheng Refractory High Thermal Conductivity Super Micropore Carbon Blocks 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 Zhengzhou Kerui(Group) Refractory

9.9.1 Zhengzhou Kerui(Group) Refractory Details

9.9.2 Zhengzhou Kerui(Group) Refractory Major Business

9.9.3 Zhengzhou Kerui(Group) Refractory High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

9.9.4 Zhengzhou Kerui(Group) Refractory High Thermal Conductivity Super Micropore Carbon Blocks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Zhengzhou Kerui(Group) Refractory Recent Developments/Updates

9.9.6 Zhengzhou Kerui(Group) Refractory Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

10.1 High Thermal Conductivity Super Micropore Carbon Blocks Industry Chain

10.2 High Thermal Conductivity Super Micropore Carbon Blocks Upstream Analysis

10.2.1 High Thermal Conductivity Super Micropore Carbon Blocks Core Raw Materials

10.2.2 Main Manufacturers of High Thermal Conductivity Super Micropore Carbon Blocks Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High Thermal Conductivity Super Micropore Carbon Blocks Production Mode

10.6 High Thermal Conductivity Super Micropore Carbon Blocks Procurement Model

10.7 High Thermal Conductivity Super Micropore Carbon Blocks Industry Sales Model and Sales Channels

10.7.1 High Thermal Conductivity Super Micropore Carbon Blocks Sales Model

10.7.2 High Thermal Conductivity Super Micropore Carbon Blocks 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 High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Region (2021-2026)

Table 5. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Region (2027-2032)

Table 6. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Region (2021-2026) & (Tons)

Table 7. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Region (2027-2032) & (Tons)

Table 8. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Region (2021-2026)

Table 9. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Region (2027-2032)

Table 10. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. High Thermal Conductivity Super Micropore Carbon Blocks Major Market Trends

Table 13. World High Thermal Conductivity Super Micropore Carbon Blocks Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World High Thermal Conductivity Super Micropore Carbon Blocks Consumption by Region (2021-2026) & (Tons)

Table 15. World High Thermal Conductivity Super Micropore Carbon Blocks Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Thermal Conductivity Super Micropore Carbon Blocks Producers in 2025

Table 18. World High Thermal Conductivity Super Micropore Carbon Blocks Production

by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key High Thermal Conductivity Super Micropore Carbon Blocks Producers in 2025

Table 20. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global High Thermal Conductivity Super Micropore Carbon Blocks Company Evaluation Quadrant

Table 22. World High Thermal Conductivity Super Micropore Carbon Blocks Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Thermal Conductivity Super Micropore Carbon Blocks Production Site of Key Manufacturer

Table 24. High Thermal Conductivity Super Micropore Carbon Blocks Market: Company Product Type Footprint

Table 25. High Thermal Conductivity Super Micropore Carbon Blocks Market: Company Product Application Footprint

Table 26. High Thermal Conductivity Super Micropore Carbon Blocks Competitive Factors

Table 27. High Thermal Conductivity Super Micropore Carbon Blocks New Entrant and Capacity Expansion Plans

Table 28. High Thermal Conductivity Super Micropore Carbon Blocks Mergers & Acquisitions Activity

Table 29. United States VS China High Thermal Conductivity Super Micropore Carbon Blocks Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Thermal Conductivity Super Micropore Carbon Blocks Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China High Thermal Conductivity Super Micropore Carbon Blocks Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share (2021-2026)

Table 37. China Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share (2021-2026)

Table 42. Rest of World Based High Thermal Conductivity Super Micropore Carbon Blocks Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share (2021-2026)

Table 47. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Application Area, (USD Million), 2021 & 2025 & 2032

Table 48. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Application Area (2021-2026) & (Tons)

Table 49. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Application Area (2027-2032) & (Tons)

Table 50. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Application Area (2021-2026) & (USD Million)

Table 51. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Application Area (2027-2032) & (USD Million)

Table 52. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Application Area (2021-2026) & (US\$/Ton)

Table 53. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Application Area (2027-2032) & (US\$/Ton)

Table 54. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Downstream Customer, (USD Million), 2021 & 2025 & 2032

Table 55. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Downstream Customer (2021-2026) & (Tons)

Table 56. World High Thermal Conductivity Super Micropore Carbon Blocks Production by Downstream Customer (2027-2032) & (Tons)

Table 57. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Downstream Customer (2021-2026) & (USD Million)

Table 58. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Downstream Customer (2027-2032) & (USD Million)

Table 59. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Downstream Customer (2021-2026) & (US\$/Ton)

Table 60. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Downstream Customer (2027-2032) & (US\$/Ton)

Table 61. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Manufacturing Form, (USD Million), 2021 & 2025 & 2032

Table 62. World High Thermal Conductivity Super Micropore Carbon Blocks Production

by Manufacturing Form (2021-2026) & (Tons)

Table 63. World High Thermal Conductivity Super Micropore Carbon Blocks Production

by Manufacturing Form (2027-2032) & (Tons)

Table 64. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Manufacturing Form (2021-2026) & (USD Million)

Table 65. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Manufacturing Form (2027-2032) & (USD Million)

Table 66. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Manufacturing Form (2021-2026) & (US\$/Ton)

Table 67. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Manufacturing Form (2027-2032) & (US\$/Ton)

Table 68. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Blast Furnace Volume, (USD Million), 2021 & 2025 & 2032

Table 69. World High Thermal Conductivity Super Micropore Carbon Blocks Production

by Blast Furnace Volume (2021-2026) & (Tons)

Table 70. World High Thermal Conductivity Super Micropore Carbon Blocks Production

by Blast Furnace Volume (2027-2032) & (Tons)

Table 71. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Blast Furnace Volume (2021-2026) & (USD Million)

Table 72. World High Thermal Conductivity Super Micropore Carbon Blocks Production

Value by Blast Furnace Volume (2027-2032) & (USD Million)

Table 73. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Blast Furnace Volume (2021-2026) & (US\$/Ton)

Table 74. World High Thermal Conductivity Super Micropore Carbon Blocks Average

Price by Blast Furnace Volume (2027-2032) & (US\$/Ton)

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

Table 76. Tokai COBEX Major Business

Table 77. Tokai COBEX High Thermal Conductivity Super Micropore Carbon Blocks

Product and Services

Table 78. Tokai COBEX High Thermal Conductivity Super Micropore Carbon Blocks 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. WISDRI Handan Wupeng Furnace Lining New Material Basic Information, Manufacturing Base and Competitors

Table 82. WISDRI Handan Wupeng Furnace Lining New Material Major Business

Table 83. WISDRI Handan Wupeng Furnace Lining New Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 84. WISDRI Handan Wupeng Furnace Lining New Material High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. WISDRI Handan Wupeng Furnace Lining New Material Recent Developments/Updates

Table 86. WISDRI Handan Wupeng Furnace Lining New Material Competitive Strengths & Weaknesses

Table 87. NDK Basic Information, Manufacturing Base and Competitors

Table 88. NDK Major Business

Table 89. NDK High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 90. NDK High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. NDK Recent Developments/Updates

Table 92. NDK Competitive Strengths & Weaknesses

Table 93. Fangda Carbon New Material Basic Information, Manufacturing Base and Competitors

Table 94. Fangda Carbon New Material Major Business

Table 95. Fangda Carbon New Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 96. Fangda Carbon New Material High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Fangda Carbon New Material Recent Developments/Updates

Table 98. Fangda Carbon New Material Competitive Strengths & Weaknesses

Table 99. TYK Basic Information, Manufacturing Base and Competitors

Table 100. TYK Major Business

Table 101. TYK High Thermal Conductivity Super Micropore Carbon Blocks Product

and Services

Table 102. TYK High Thermal Conductivity Super Micropore Carbon Blocks 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. Zhengzhou Baoshi Refractory Material Basic Information, Manufacturing Base and Competitors

Table 106. Zhengzhou Baoshi Refractory Material Major Business

Table 107. Zhengzhou Baoshi Refractory Material High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 108. Zhengzhou Baoshi Refractory Material High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Zhengzhou Baoshi Refractory Material Recent Developments/Updates

Table 110. Zhengzhou Baoshi Refractory Material Competitive Strengths & Weaknesses

Table 111. Tyreen Basic Information, Manufacturing Base and Competitors

Table 112. Tyreen Major Business

Table 113. Tyreen High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 114. Tyreen High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Tyreen Recent Developments/Updates

Table 116. Tyreen 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 High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 120. Zhengzhou RongSheng Refractory High Thermal Conductivity Super Micropore Carbon Blocks 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. Zhengzhou Kerui(Group) Refractory Basic Information, Manufacturing Base and Competitors

Table 124. Zhengzhou Kerui(Group) Refractory Major Business

Table 125. Zhengzhou Kerui(Group) Refractory High Thermal Conductivity Super Micropore Carbon Blocks Product and Services

Table 126. Zhengzhou Kerui(Group) Refractory High Thermal Conductivity Super Micropore Carbon Blocks Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Zhengzhou Kerui(Group) Refractory Recent Developments/Updates

Table 128. Zhengzhou Kerui(Group) Refractory Competitive Strengths & Weaknesses

Table 129. Global Key Players of High Thermal Conductivity Super Micropore Carbon Blocks Upstream (Raw Materials)

Table 130. Global High Thermal Conductivity Super Micropore Carbon Blocks Typical Customers

Table 131. High Thermal Conductivity Super Micropore Carbon Blocks Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. High Thermal Conductivity Super Micropore Carbon Blocks Picture
- Figure 2. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2032) & (Tons)
- Figure 5. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Region (2021-2032)
- Figure 7. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Region (2021-2032)
- Figure 8. Europe High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2032) & (Tons)
- Figure 9. China High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2032) & (Tons)
- Figure 10. Japan High Thermal Conductivity Super Micropore Carbon Blocks Production (2021-2032) & (Tons)
- Figure 11. High Thermal Conductivity Super Micropore Carbon Blocks Market Drivers
- Figure 12. Factors Affecting Demand
- Figure 13. World High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)
- Figure 14. World High Thermal Conductivity Super Micropore Carbon Blocks Consumption Market Share by Region (2021-2032)
- Figure 15. United States High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)
- Figure 16. China High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)
- Figure 17. Europe High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)
- Figure 18. Japan High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)
- Figure 19. South Korea High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)

Figure 20. ASEAN High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)

Figure 21. India High Thermal Conductivity Super Micropore Carbon Blocks Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of High Thermal Conductivity Super Micropore Carbon Blocks by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for High Thermal Conductivity Super Micropore Carbon Blocks Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for High Thermal Conductivity Super Micropore Carbon Blocks Markets in 2025

Figure 25. United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High Thermal Conductivity Super Micropore Carbon Blocks Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share 2025

Figure 29. China Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share 2025

Figure 30. Rest of World Based Manufacturers High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share 2025

Figure 31. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Application Area, (USD Million), 2021 & 2025 & 2032

Figure 32. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Application Area in 2025

Figure 33. Hearth

Figure 34. Bottom

Figure 35. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Application Area (2021-2032)

Figure 36. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Application Area (2021-2032)

Figure 37. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Application Area (2021-2032) & (US\$/Ton)

Figure 38. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Downstream Customer, (USD Million), 2021 & 2025 & 2032

Figure 39. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Downstream Customer in 2025

Figure 40. State-owned Steel Groups

Figure 41. Private Steel Enterprises

Figure 42. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Downstream Customer (2021-2032)

Figure 43. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Downstream Customer (2021-2032)

Figure 44. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Downstream Customer (2021-2032) & (US\$/Ton)

Figure 45. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Manufacturing Form, (USD Million), 2021 & 2025 & 2032

Figure 46. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Manufacturing Form in 2025

Figure 47. Standard

Figure 48. Customized

Figure 49. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Manufacturing Form (2021-2032)

Figure 50. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Manufacturing Form (2021-2032)

Figure 51. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Manufacturing Form (2021-2032) & (US\$/Ton)

Figure 52. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value by Blast Furnace Volume, (USD Million), 2021 & 2025 & 2032

Figure 53. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Blast Furnace Volume in 2025

Figure 54. 1000 m<sup>3</sup> Below

Figure 55. 1000-2000 m<sup>3</sup>

Figure 56. 2000 m<sup>3</sup> Above

Figure 57. World High Thermal Conductivity Super Micropore Carbon Blocks Production Market Share by Blast Furnace Volume (2021-2032)

Figure 58. World High Thermal Conductivity Super Micropore Carbon Blocks Production Value Market Share by Blast Furnace Volume (2021-2032)

Figure 59. World High Thermal Conductivity Super Micropore Carbon Blocks Average Price by Blast Furnace Volume (2021-2032) & (US\$/Ton)

Figure 60. High Thermal Conductivity Super Micropore Carbon Blocks Industry Chain

Figure 61. High Thermal Conductivity Super Micropore Carbon Blocks Procurement Model

Figure 62. High Thermal Conductivity Super Micropore Carbon Blocks Sales Model

Figure 63. High Thermal Conductivity Super Micropore Carbon Blocks Sales Channels, Direct Sales, and Distribution

Figure 64. Methodology

Figure 65. Research Process and Data Source

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