

Technical Data Sheet (TDS) – Full Carbon Products Series

Company: HEBEI COKE TECHNOLOGY DEVELOPMENT CO.,LTD

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1. Company Profile

Hebei Coke Technology Development Co., Ltd. is a professional new-energy enterprise integrating coke and carbon material production and global export. Founded in 2006, our production base is located in Shanxi Province, covering an area of 45 hectares with 435 registered employees. Since official operation in July 2006, the company has achieved a cumulative tax payment of 184 million RMB.

Enterprise Honors & Qualifications

- Outstanding Tax Contribution Enterprise (Municipal Government Award)
- AA-level Quality & Credit Enterprise (Certified by Shanxi Provincial Technical Supervision Bureau)
- Contract-Abiding and Creditworthy Enterprise
- National Best Environmental-Friendly Coke Refining Enterprise (Jointly certified by MIIT and Shanxi Provincial Department of Ecology and Environment)

Since launching overseas business in 2014, our high-precision foundry coke and full-series carbon products have been exported to Japan, South Korea, Vietnam, India, Pakistan, Thailand, Malaysia, Sri Lanka, Egypt, Nigeria and other global markets. With stable supply capacity, strict quality control and complete export services, we have established long-term cooperative relationships with foundry, metallurgy and ferroalloy enterprises worldwide.

2. Foundry Coke

Product Description: High-precision industrial foundry coke specially designed for cupola furnace iron melting. It features strong impact fragmentation resistance, low ash, low moisture, low sulfur, low phosphorus, high fixed carbon, large lump size and high iron melting efficiency, ensuring stable casting quality and reducing production costs.

Application: Iron foundry, ductile iron production, mechanical casting industry

Item	Unit	Super Grade Foundry Coke	First Grade Foundry Coke	Second Grade Foundry Coke
Fixed Carbon (Min)	%	90	89	86
Ash (Max)	%	8	10	12
Volatile Matter (Max)	%	1.5	1.5	1.5
Sulfur (Max)	%	0.5	0.5	0.6
Phosphorus (Max)	%	0.03	0.03	0.03
CSR (Min)	%	65	65	60
CRI (Max)	%	25	26	28
M40 (Min)	%	92	90	90
M10 (Max)	%	5	6	7
Moisture (Max)	%	5	5	5

Available Size: 40–80mm, 60–90mm, 80–120mm, customizable

3. Metallurgical Coke

Product Description: Standard blast furnace metallurgical coke, widely used in steelmaking and ferroalloy smelting. It features stable thermal strength, uniform particle size and stable chemical indexes, effectively meeting the continuous production demands of steel mills.

Application: Blast furnace steelmaking, ferroalloy smelting, metal smelting industry

Item	Unit	Standard Metallurgical Coke
Fixed Carbon (Min)	%	85
Ash (Max)	%	13
Volatile Matter (Max)	%	1.5

Sulfur (Max)	%	0.8
Phosphorus (Max)	%	0.035
CSR (Min)	%	58
CRI (Max)	%	28
M40 (Min)	%	90
M10 (Max)	%	7
Moisture (Max)	%	8

4. Semi Coke (Blue Coke)

Product Description: High-quality Yulin semi coke, a new type of carbon material that can replace traditional metallurgical coke. With low ash, low phosphorus, ultra-low sulfur and high resistivity, it effectively reduces power consumption and raw material cost in smelting production and improves furnace output.

Application: Ferroalloy, calcium carbide, ferrosilicon, ferromanganese and nickel pig iron smelting

Item	Unit	HBC-LT-01	HBC-LT-02	HBC-LT-03
Fixed Carbon (Min)	%	83–85	83–85	83–85
Sulfur (Max)	%	0.35	0.35	0.35
Ash (Max)	%	9	7	7
Volatile Matter (Max)	%	8	7	7
Moisture (Max)	%	15	15	15
Phosphorus (Max)	%	0.02	0.02/0.01	0.02/0.01
Calorific Value	Kcal/kg	6500–7200	6500–7200	6500–7200
Size	mm	30–60	18–35/10-30	8–18

5. Calcined Anthracite Coal (CAC) / Carbon Raiser

Product Description: High-purity calcined anthracite coal carbon raiser, processed from premium raw anthracite through high-temperature calcination. It features low sulfur, low phosphorus, stable indexes, high density and high carbon absorption rate, which effectively improves molten metal quality and reduces production costs for casting and steelmaking.

Application: Carbon adjustment for electric furnace steelmaking, gray iron casting, ductile iron casting and ferroalloy production

Item	Unit	HBC-ZTJ-01	HBC-ZTJ-02	HBC-ZTJ-03	HBC-ZTJ-04	HBC-ZTJ-05	HBC-ZTJ-06	HBC-ZTJ-07	HBC-ZTJ-08
Fixed Carbon (Min)	%	85	88	90	91	92	93	94	95
Sulfur (Max)	%	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Ash (Max)	%	11	10.5	8.5	7.5	6.5	5.5	4.5	3.5
Volatile Matter (Max)	%	4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Moisture (Max)	%	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Nitrogen (Max)	%	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Phosphorus (Max)	%	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Available Size: 1–5mm, 3–8mm, customized particle size

Testing Standard: ISO 562, ISO 1171

6. Graphitized Petroleum Coke (GPC)

Product Description: High-temperature graphitized petroleum coke calcined above 3000℃ with complete graphitization. It has high fixed carbon, low impurity content, fast dissolution speed and high carbon

absorption rate, which is the preferred carbon raiser for ductile iron casting.

Application: Ductile iron casting, high-end steelmaking, precision metallurgy

Item	Unit	Standard GPC Specification
Fixed Carbon (Min)	%	98.5
Volatile Matter (Max)	%	0.70
Moisture (Max)	%	0.50
Sulfur (Max)	%	0.05

Available Size: 0.2–1mm, 1–5mm,2-6mm

7. Calcined Petroleum Coke (CPC)

Product Description: Hard dark porous carbon material with metallic luster, composed of micro graphite crystals. It has stable physical and chemical properties and is widely used in carbon industry and metallurgical industry.

Application: Prebaked anode, anode paste, steelmaking carbon raiser, foaming agent, chemical raw materials

Available Size: 1–3mm, 1–5mm, customizable

8. Carbon Anode Scrap

Product Description: Residual prebaked anode carbon blocks from electrolytic aluminum industry. It features high calorific value and low moisture. The heat generated by 1 ton of anode scrap is equivalent to 1.5 tons of metallurgical coke.

Application: Reproduce anode materials, aggregate for anode paste, copper smelting fuel

Item	Unit	Standard Index
Fixed Carbon (Min)	%	98
Volatile Matter (Max)	%	2.5

9. General Supply Terms & Service Advantages

- **Loading Ports:** Tianjin Port / Qingdao Port / Rizhao Port/or other port, China
 - **Payment Terms:** T/T, L/C at sight, flexible negotiation
 - **Third-Party Inspection:** SGS / CCIC / BV official port inspection is acceptable
 - **Shipment Mode:** Bulk vessel shipment / 1MT jumbo bag container shipment
 - **Custom Service:** Customized chemical indexes, particle sizes and packaging solutions
 - **Technical Support:** Professional one-stop technical guidance for smelting and casting application
- Disclaimer:** All technical data shown above are standard factory test results. All products can be adjusted according to customers' actual production and technical requirements.