

# METSELL

# CPC



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## About Us

Metsell is a specialized energy company dedicated to production and sales, primarily offering three grades of foundry coke and metallurgical coke. Guided by our philosophy of "existing with quality and developing with reputation," we deliver superior products and first-class service that embody the excellence of "GDCOKE." Our high-density foundry coke is distinguished by its low ash, low sulfur, low phosphorus, high fixed carbon, and exceptional mechanical strength, making it ideal for the mechanical manufacturing and precision casting industries. GDCOKE has established a presence in markets across the Middle East, Europe, and Asia. Through years of effort and development, we have evolved into an energy-efficient, environmentally friendly coking enterprise, positioning ourselves as a leading expert in foundry coke. Our growth is driven by modern business practices, scientific management, and a robust sales network.

## Enterprise Advantage

### Product Advantage

Our main products include high-density super grade foundry coke, first-grade foundry coke, second-grade foundry coke, metallurgical coke, steam, and electricity. The high-density super grade and first-grade foundry coke have low dust, moisture, sulfur, and phosphorus content, high carbon content, large size, and high iron melting rate.



Coke Grade	Fixed Carbon (Min)	Ash (Max)	Volatile Matter (Max)	Sulfur (Max)	Moisture (Max)	Phosphorus (Max)	CRI (Max)	CSR (Max)	Fall Strength (Min)	M40% (Min)	M10% (Max)
Super grade foundry coke	90%	8%	1.5%	0.5%	7%	0.03%	25%	65%	98%	95%	5%
First grade foundry coke	88%	10%	1.5%	0.5%	8%	0.03%	26%	65%	98%	92%	6%
Second grade foundry coke	86%	12%	1.5%	0.6%	8%	0.03%	28%	60%	92%	90%	7%
Metallurgical coke	85%	13.5%	1.5%	0.8%	8%	0.035%	28%	58%	90%	90%	7%

## Carbon Anode Scrap

### Product Description

Carbon anode scrap is the residual part of prebaked anode carbon block which is used in the electrolytic tank. Anode scrap is high in calorific value and low in moisture. The calorie of 1Ton carbon anode scrap is equivalent to that of 1.5Tons metallurgical coke.

### Application

1. Reused in the process of producing anode material
2. Used as a kind of aggregate in the process of producing anode paste
3. Used as the copper smelting fuel

### Technical Parameters

Carbon Anode Scrap	Fixed Carbon (Min)	98%
	Sulfur (Max)	2.5%
	Ash (Max)	1%
	Volatile Matter (Max)	1%
	Moisture (Max)	1%



## Semi-Coke

### Product Description

Yulin Semi Coke, as a new type of carbon material, can be used as a substitute for Coke (Metallurgical Coke). Semi Coke can be widely used in chemical industry, smelting industry, and gasification industry etc., It is better than coke in the production of magnesium metal, ferro alloy, ferro silicon, silicomanganese, fertilizer, calcium carbide and other products.

### Technical Parameters

Type	Fixed Carbon (Min)	Ash (Max)	Volatile Matter (Max)	Sulfur (Max)	Moisture (Max)	Posphorus (Max)	Calorific Value (Max)	Size
GD-LT-01	83-85%	9%	8%	0.35%	15%	0.02%	5700-6000 Kcal/kg	30-60 mm
GD-LT-02	83-85%	7%	8%	0.35%	15%	0.02%	5700-6000 Kcal/kg	18-35 mm
GD-LT-03	83-85%	7%	8%	0.35%	15%	0.02%	5700-6000 Kcal/kg	8-18 mm





## Metallurgy Industry & Chemical Industry

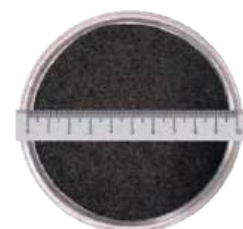
1. Ferro alloy Reducing Agent. Compared with metallurgical coke, yulin semi coke can reduce the electricity consumption by 10% in the production of ferro alloys. That means, it saves 300 ~ 500K WH electricity, and 70 ~ 90KG coke per ton, which can increase per furnace output by more than 10%. From the 1990s, the mixture of semi coke and metallurgical coke was mainly used as reducing agent in the ferro alloy production.
2. Calcium Carbide Reducing Agent. Characterized by low ash, low aluminum, low phosphorus, and high resistivity, semi coke is widely used in calcium carbide industry, which can reduce energy consumption and costs, and improve products quality significantly.

## Graphitized Petroleum Coke

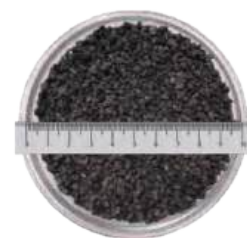
### Product Description

The high-temperature graphitized petroleum coke from the Acheson calcining center is characterized by high fixed carbon, low gas impurity content, rapid dissolution, and high recovery, making it ideal for recarburization in ductile cast iron.

The medium-temperature graphitized petroleum coke is used as a thermal insulation layer in Acheson's high-temperature graphitized products. It is produced through calcination at temperatures of 1700-2700°C. With high fixed carbon, fast dissolution and moderate sulfur content (0.20-0.40%), it offers similar properties to high-temperature graphitized petroleum coke. This product is cost-effective and widely used in the recarburization of gray cast iron. The medium-temperature graphitized petroleum coke is used as a thermal insulation layer in Acheson's high-temperature graphitized products. It is produced through calcination at temperatures of 1700-2700°C. With high fixed carbon, fast dissolution, and moderate sulfur content (0.20-0.40%), it offers similar properties to high-temperature graphitized petroleum coke. This product is cost-effective and widely used in the recarburization of gray cast iron.



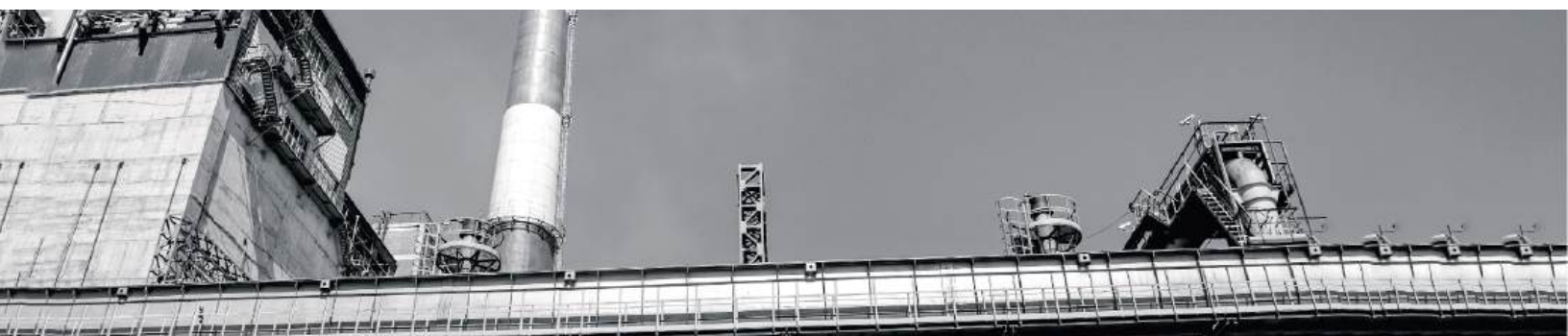
GPC1-5mm



GPC0.2-1mm

### Technical Parameters

Type	Fixed Carbon (Min)	Ash (Max)	Volatile Matter (Max)	Moisture (Max)	Sulfur Content (Max)	Nitrogen Content (Max)	Size
Graphitized Petroleum coke	98.5%	0.50%	0.50%	0.50%	0.05%	300 ppm	1-5 mm
Sime-graphitized Petroleum coke	98.5%	0.50%	1.0%	0.50%	0.20-0.40%	800-200 ppm	1-5 mm



### Product Description

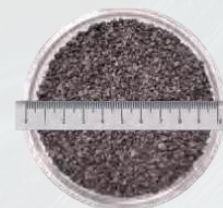
Calcined Petroleum Coke is solid petroleum coke product with black and dark gray colour, shine with metallic luster, porosity, and composed with micro-graphite crystals. It is the carbon material in form of granular, columnar and acicular.

### Application

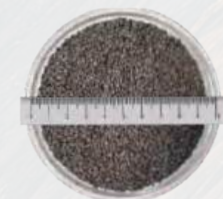
1. "This product is used in aluminum production and carbon products.
2. It is also used as fuel for silicon metal smelting and as a basic raw material for carbon additive and foaming agent.
3. Additionally, it is used in the chemical industry as a basic chemical source of sodium hydride and high-purity CO.

### Technical Parameters

Type	Fixed Carbon (Min)	Ash (Max)	Volatile Matter (Max)	Sulfur (Max)	Moisture (Max)	Nitrogen Content (Max)	Size
Calcined Petroleum Coke	98.0%	0.50%	1.0%	0.50%	0.05%	10000 ppm	1-5 mm



CPC1-5mm



CPC1-3mm

### Product Description

Helen Mountain is abundant in coal resources, and its unique Taixi Anthracite, also known as "Taixi Wujin," is renowned worldwide. Calcined Anthracite is produced when Taixi Anthracite is calcined at a temperature of 1240°C in vertical shaft furnaces. It is characterized by low sulfur, low phosphorus, high mechanical strength, high density, and high calorific value. This type of anthracite is widely used in the carbon industry, chemical industry, and metallurgical industry.

Type	Fixed Carbon (Min)	Ash (Max)	Volatile Matter (Max)	Sulfur (Max)	Moisture (Max)	Nitrogen Content (Max)	P (Max)
GD-ZTJ-01	90.0%	8.5%	1.5%	0.30%	0.50%	0.30%	0.03%
GD-ZTJ-02	92.0%	6.5%	1.5%	0.30%	0.50%	0.30%	0.03%
GD-ZTJ-03	93.0%	5.5%	1.5%	0.30%	0.50%	0.30%	0.03%
GD-ZTJ-04	94.0%	4.5%	1.5%	0.30%	0.50%	0.30%	0.03%
GD-ZTJ-05	95.0%	3.5%	1.5%	0.30%	0.50%	0.30%	0.03%

### Packing & Service

GDCOKE spearheads the establishment of a sound customer service system in the coking industry. Adhering to the ultimate pursuit of product quality, we are always committed to do the best to meet customers' requirements & provide customers with satisfactory quality service, including packing, agent transportation & technical guidance. Customers have diverse requirements for packing, GDCOKE has many years of packing experience. We can provide perfect packaging according to customers' various requirements. To meet customers' various requirements, we can provide different specifications, different types and different materials for packaging.

If customers have any question about operation and technology, GDCOKE will do our best to answer and provide technical guidance to solve problems for customers in the first place. Welcome to email us for consultation at any time.





## *Our Global Presence*



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