

# Final Product Research Form

No:1072

Date: 2023 - 03 - 14

Attachment:



## Petroleum coke

Petroleum coke is a hard solid petroleum product in black or dark gray, and is characterized by metallic luster and porosity. It is carbon-shaped stuff composed of tiny graphite crystals formed into granules, columns or needles. The composition of petroleum coke is hydrocarbons, containing 90-97% carbon, 1.5-8% hydrogen, and elements such as nitrogen, chlorine, and sulfur.

Petroleum coke is the carbonized product of heavy residue produced by crude oil processing (atmospheric and vacuum distillation, catalytic cracking, etc.).

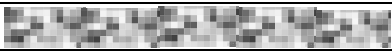
Petroleum coke products can be divided into needle coke, sponge coke, shot coke and powder coke based on its structure and appearance:

1. **Needle coke** has an obvious needle structure and fiber texture, and is mainly used as high-power and ultra-high-power graphite electrodes in steelmaking after calcination, and some of it is used as cathode materials.
2. **Sponge coke** is of high chemical reactivity and low impurity content, and is mainly used in aluminum industry and carbon industry.
3. **Shot coke** or spherical coke is spherical in shape and 0.6-30mm in diameter, generally produced by high-sulfur and high-asphaltene residual oil, and can only be used as industrial fuels such as power generation and cement.
4. **Fluid coke** is produced by fluidized coking, with fine particles (0.1-0.4mm in diameter), high volatile component and high thermal expansion coefficient. It can't be directly used in electrode preparation and carbon industry.




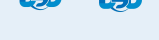
## Pictures of samples



## Technical Specification

Supplier	
Type	Calcined petroleum coke
Fixed Carbon content (%) (Min)	99
Sulfur content (%) (Max)	1.2 - 2
Moisture content (%) (Max)	0.1
Ash Content (%) (Max)	0.5
Volatile matter content (%) (Max)	0.5
Bulk Density (gm/cc) (min)	0.8
Real Density (gm/cc)	2.03 - 2.06
Vanadium (ppm) (Max)	250
Size ( +4 Most content (%) (Min) )	30
Size ( -0.25 content (%) (Min)	5

## Product price and currency conversion rate

product	Price (\$/MT)	Weight (Mt)	Total price (\$)
Sn 150		48	
Sn 500		48	

- Exchange Rate: 469,000 R/\$

## Other Description

### Shipping & Clearance:

- Origin: Iran, Tehran
- Destination: Lebanon, Beirut

### Storing and Transportation:

- FlexiTank Container