



XURAN
Xuran New Materials Limited

Carbon Raiser

Carbon raiser, also known as carbon additive or recarburizer, is a material added to molten metal to increase its carbon content. When being used in steelmaking or casting, the fixed carbon of carbon raiser can reach more than 95%. It has been widely used in various industries such as metallurgy, chemical, and power.

Carbon raisers are generally divided into calcined petroleum coke (CPC), graphitized petroleum coke (GPC), calcined anthracite coal (CAC), electrically calcined anthracite, and graphite electrode scraps. They are usually used for converter smelting or high-carbon steel smelting. Besides, we also offer carbon raiser columns for your option.



Specification

| Item | GPC (Graphitized Petroleum Coke) | Semi -GPC | CPC (Graphitized Petroleum Coke) | GCA (Gas Calcined Anthracite) | GCA (Gas Calcined Anthracite) | GCA (Gas Calcined Anthracite) | Graphite Electrode Scraps |
|----------------------|---|-----------------------------|---|--|--|--|---------------------------------|
| Fixed Carbon | ≥ 98.5% | ≥ 98.5% | ≥ 98.5% | ≥ 90% | ≥ 92% | ≥ 95% | ≥ 98.5% |
| Sulfur Content | ≤ 0.05% | ≤ 0.30% | ≤ 0.50% | ≤ 0.50% | ≤ 0.40% | ≤ 0.25% | ≤ 0.05% |
| Volatile Matter | ≤ 1.0% | ≤ 1.0% | ≤ 1.0% | ≤ 1.5% | ≤ 1.5% | ≤ 1.2% | ≤ 0.8% |
| Ash | ≤ 1.0% | ≤ 1.0% | ≤ 1.0% | ≤ 8.5% | ≤ 7.5% | ≤ 4.0% | ≤ 0.7% |
| Moisture Content | ≤ 0.5% | ≤ 0.5% | ≤ 0.5% | ≤ 1.0% | ≤ 1.0% | ≤ 1.0% | ≤ 0.5% |
| Particle Size/ mm | 0-1; 1-3; 1-5; etc. | 0-1; 1-3; 1-5; etc | 0-1; 1-3; 1-5; etc | 0-1; 1-3; 1-5; etc | 0-1; 1-3; 1-5; etc | 0-1; 1-3; 1-5; etc | 0-1; 1-3; 1-5; etc |

Features

- High fixed carbon content, low ash content, high electrical & thermal conductivity.
- Low sulfur, low porosity and low volatile content.
- Dry, clean and medium-sized particles.

Application

Carbon raiser is mainly used to improve the carbon content in iron and steel and enhance the hardness, strength and wear resistance of iron and steel. It is typically used in the process of steelmaking and casting.



For casting production



For metal casting process



For steel production