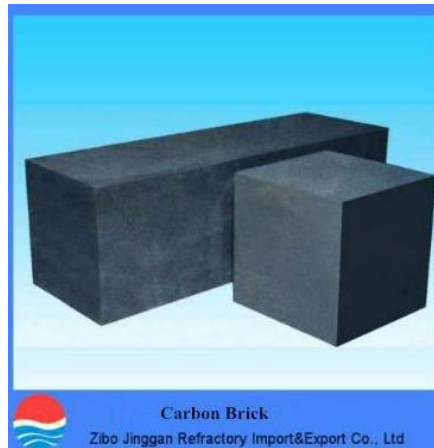


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Carbon Brick For Blast Furnace Hearth



1,Index of Carbon Brick For Blast Furnace Hearth:

1)Technical index of Microporous Carbon Brick

Bulk density	g/cm ³	≥1.75
Apparent porosity	%	≤13
Compressive strength	Mpa	≥35
Permeability	mDa	0.35
Oxygenation efficiency	%	≤4.5
Hot metal erosion index	%	≤30
Average Pore diameter	um	0.110
Coefficient of heat conductivity	W/m.k,600℃	23
Alkali resistance		excellent

2)Technical index of Semi-graphite Carbon Brick

Ash	%	≤4
Bulk density	g/cm ³	>1.60
Apparent porosity	%	≤13
Compressive strength	Mpa	≥46
Permeability	mDa	38

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Oxygenation efficiency	%	≤13
Hot metal erosion index	%	28
Average Pore diameter	um	7
Coefficient of heat conductivity	W/m.k,600℃	11
Alkali resistance		good

3)Technical index of Common Carbon Brick

Ash	%	<8
Bulk density	g/cm ³	≥1.5
Compressive strength	Mpa	≥29.6
Total porosity	%	≤23
Coefficient of heat conductivity	W/m.k,600℃	>5.0
Fixed Carbon	%	>88

2,Conditions that must be met for carbon bricks for furnace bottom:

- 1) Hot metal can not be immersed into tissues through stomata.
- 2) Less melting due to molten iron
- 3) High heat conductivity and good cooling effect
- 4) Strong alkali resistance
- 5) Low permeability to prevent zinc and oxidizing gas intrusion
- 6) Low elasticity, high strength, heat shock resistance

3,Types of carbon bricks for hearth and bottom of blast furnace:

- 1) Standard carbon bricks
- 2) Ultrafine Porous Carbon Bricks (Graphite Bricks)
- 3) Microporous semi-graphite brick
- 4) Graphite Bricks

4,Characteristic of Carbon Brick For Blast Furnace Hearth: It is easy to be eroded by air, carbon dioxide and water vapor, as well as iron and alkali metals at high temperature,The damage mechanism of different parts of blast furnace lining is different. Carbon refractories of different materials must be selected according to the damage mechanism and cooling conditions.

5.Good feedback of product use effect,the products have been exported to Australia, Kenya, Mexico

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6.We are a professional supplier, who can provide customers with free product technology, use and other issues.

Do you want to find a professional supplier of refractory products?

Do you want to find a professional supplier of graphite electrodes?

Do you want to find a stable and credible supplier?

Then let's contact with jinggan company

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