

ZIBO JINGGAN REFRACTORY IMPORT AND EXPORT CO.,LTD

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Cathode Carbon Block For Aluminum Electrolysis Cell



- 1, Main raw materials: calcined anthracite, coke, graphite powder.
- 2, Application: Used as cathode of electrolytic aluminium cell
- 3, Features: Electrical conductivity, high temperature resistance, sodium corrosion resistance, good thermal conductivity, high mechanical strength, good thermal shock resistance
- 4, Category: common cathode carbon block: Anthracite calcined at 1250–1350°C is used as main raw material.

Semi-graphitic carbon block: The main raw materials are calcined anthracite at high temperature and graphite crushed, semi-finished products are only roasted (1200°C) without heat treatment in graphitization furnace.

Graphitized cathode carbon block: using coke which is easy to graphitize as raw material, semifinished products are heat treated by graphitization furnace (2500–2800°C)

- 5, Resistivity and Application Effect of Different kinds of Products
Common cathode carbon block: resistivity 50–60 $\mu\Omega \cdot m$, the use effect is general

Semi-graphite Carbon Block: Resistivity 15–45 $\mu\Omega \cdot m$, good effect

Graphitized cathode carbon block: resistivity $\leq 15 \mu\Omega \cdot m$, good application effect

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Product Index of Common Cathode Carbon Block For Aluminum Electrolysis
Cell

ITEM		JTLK-1
Ash	%	10
Resistivity	$\mu \Omega \cdot m$	60
Breakage coefficient	%	1.5
Density	g/cm ³	1.52
Real density	g/cm ³	1.86
Compression strength	Mpa	23

Product Index of Semi-Graphite Cathode Carbon Block For Aluminum
Electrolysis Cell

ITEM		J
Ash	%	8
Resistivity	$\mu \Omega \cdot m$	4
Electrolytic coefficient	%	1
Density	g/cm ³	1
Real density	g/cm ³	1
Compression strength	Mpa	2

Product Index of Graphite Cathode Carbon Block For Aluminum Electrolysis
Cell

ITEM		JG(dipping)	JK(non d
Density	g/cm ³	1.59	1.56
Real density	g/cm ³	2.2	2.2
Porosity	%	28	29
Ash	%	0.3	0.3
Compression strength	Mpa	24	20
Flexural strength	Mpa	12	8
Modulus of elasticity	Gpa	6	7.3

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Resistivity	$\mu \Omega \cdot m$	10	10.5
Coefficient of thermal expansion	10-6/, °C	3.2	2.5
Sodium expansion coefficient	‰	0.5	0.5

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

7. 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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