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Graphite products

Kiln Furniture

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Products

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Graphite Electrodes

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RP,HP,UHP,SHP Features 1: Stability Chemical Good Machinability Features 3: High Electrical Conductivity Features 4: High Thermal Conductivity Features 5: High Temperature Resistance Low Thermal Expansion Coefficient

sales@rhrefractory.com

DC Furnace

sales@rhrefractory.com

Advantage

Graphite electrode, also known as artificial graphite electrode, is based on petroleum coke and needle coke as the main raw materials, and coal pitch as the binder. After calcining, grinding, mixing and kneading, extrusion forming, roasting, asphalt impregnation, graphitization, machining and

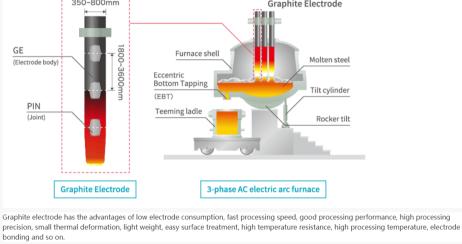
Introduction

other series. A high temperature resistant graphite conductive material produced by the process.



power, and square electrodes. The range of diameters covers from 200mm to 700mm.

350~800mm Graphite Electrode



Application Graphite electrodes are mainly used in electric arc furnace steelmaking, the working principle of graphite electrodes in steel refining involves generating high temperatures through an electric arc, melting the metal at the furnace's base, and facilitating critical chemical reactions such as decarburization and alloying to produce high-quality steel.



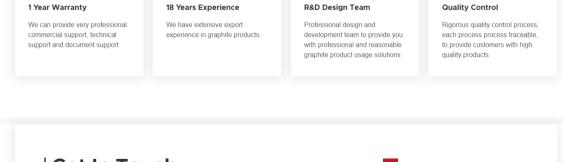
		350~450mm 14"~18"		500~700mm 20"~28	550~800mm 22"~32"
Features		RP	UHP	UHP	UHP
Bulk density	g/cm3	1.58~1.70	1.65~1.76	1.66~1.74	1.68~1.75
Specific resistance	μΩm	6.0~8.5	4.5~6.5	4.5~6.5	4.2~5.5
Young's modulus	kN/mm2	8~12	11~16	9~14	9~13
	GPa	8~12	11~16	9~14	9~13
	kgf/mm2	800~1,200	1,100~1,650	950~1,400	900~1,300
Bending strength	N/cm2	1,000~1,400	1,200~1,800	1,000~1,500	1,000~1,500
	MPa	10~14	12~18	10~15	10~15
	kgf/cm2	100~140	120~180	100~150	100~150
Thermal expansion coefficient (R.T. to 400°C)	×10-6/ C	0.8~1.5	0.8~1.5	0.5~1.0	0.5~0.9
	×10-6/ F	0.4~0.8	0.4~0.8	0.3~0.6	0.3~0.5
True density	g/cm3	2.20~2.23	2.20~2.23	2.20~2.23	2.20~2.23
Total porosity	%	23~29	20~26	21~26	20~25
Ash content	%	Less than 0.2	Less than 0.2	Less than 0.2	Less than 0.2

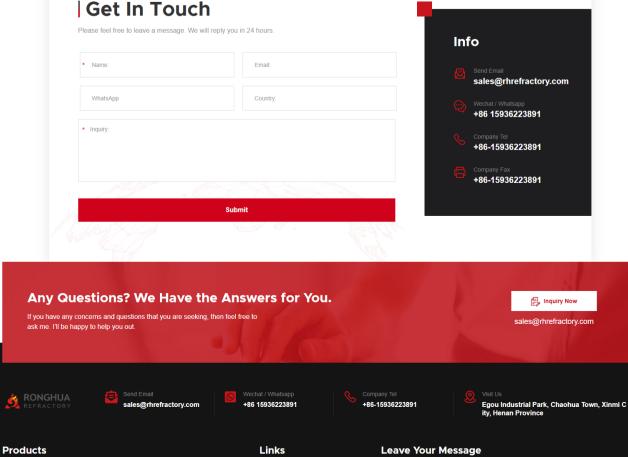
Graphite products list

Graphite Block

Graphite Electrode

Advantage





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