

High Conductivity RP HP UHP Graphite Electrode For EAF Electric Arc Furnace

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Rongsheng
- Minimum Order Quantity: 1 Ton
- Price: 200-800USD
- Packaging Details: Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month



Product Specification

- Apparent Density: 1.58 - 1.76 G/cc
- Application: Steel Making
- Bulk Density: 1.58-1.68 G/cm3
- Characteristic: Long Service Life
- Compressive Strength: 35-45 MPa
- Density: 1.68-1.72
- Diamond: 70-550mm
- Dimensions: 400*450
- Hs Code: 69022000
- Keyword: Graphite Electrode
- Length: 1800mm
- Material: Graphite
- Thermal Conductivity: 120-150 W/mK
- Thermal Expansion: 1.5 - 2.8 X10-6 /(100-600)
- Young'S Modulus: 9-12 GPa

Product Description

Product Description of High Conductivity RP HP UHP Graphite Electrode For EAF Electric Arc Furnace With Manufacturer Price

Graphite electrode is mainly made of Petroleum coke and needle coke as raw materials and coal tar pitch as binder after calcination, batching, kneading, molding, roasting, graphitization and machining. It is a conductor that releases electric energy in the form of arc to heat and melt furnace materials. According to its quality indicators, it can be divided into ordinary power graphite electrode, high power graphite electrode and ultra-high power graphite electrode.

Advantages of Graphite Electrode

- 1, The process of graphite electrode production is simple, high efficiency, small graphite loss
- 2, Fast processing speed, lower production costs
- 3, Different sizes available, including large diameter
- 4, Our graphite electrodes are very durable and have a long service life
- 5, Our graphite electrodes are with low electric resistance, high density, high anti-oxidation capability, precise machining accuracy, especially with low sulphur and low ash will not give steel second time

Our Product Introduction



Graphite Electrode Application

1 for EAF arc furnace; 2 for ore-thermal furnace; for the resistance furnace; 3 for the production of profiled graphite products; 4 for the production of shaped graphite products. Diameter of electrodes: from 75 to 800mm. We can produce various specifications in accordance with customer requirements. Our advantages: Manufacturer from China; Buy directly from the factory; High-quality products; Profitable price.



Product Specification of High Conductivity RP HP UHP Graphite Electrode

The Length & Diameter & Permissible Deviation of Graphite Electrode

Nominal Diameter		Actual Diameter			Length (mm)	Length
MM	Inch	Pop-py.	Mines	The Minimum Size Of The Black Part		
75	3	78	73	72	1400/1600	± 100
100	4	103	98	97	1400/1600	
130	5	132	127	126	1400	
150	6	154	149	146	1400/1600/1800	
175	7	180	174	172	1400/1600	
200	8	205	200	197	1600/1800	
225	9	230	225	222	1600/1800	
250	10	255	251	248	1600/1800	
300	12	307	302	299	1600/1800/2000	
350	14	357	352	349	1600/1800/2000	
400	16	409	403	400	1600/1800/2000/22000	
450	18	460	454	451	1600/1800/2000/22000	
500	20	511	505	502	1600/1800/2000/22000	
550	22	562	556	553	1800/2000/2200/2400	
600	24	613	607	604	2000/2200/2400/2700	
650	26	663	659	656	2000/2200/2400/2700	
700	28	714	710	707	2000/2200/2400/2700	

Technical Characteristics of Graphite Electrode RP, HP, UHP

Name		Unit	Nominal Diameter			
			UHP Ultra-High-Power ≤Φ400 ≥Φ450		HP Superstrong ≤Φ400 ≥Φ450	
Resistivity	Electrode	MQ · m	≤5.5	≤6.5	≤6.5	≤6.5
	Nipple		≤4.5	≤5.5	≤5.5	≤5.5
Flexural Strength	Electrode	MPa	≥11.0	≥10.5	≥9.8	≥8.5
	Nipple		≥20.0	≥16.0	≥16.0	≥16.0
Elastic Modulus	Electrode	GPa	≤14.0	≤12.0	≤12.0	≤12.0
	Nipple		≤18.0	≤16.0	≤16.0	≤16.0
Density	Electrode	g / cm3	≥1.66	≥1.67	≥1.62	≥1.6
	Nipple		≥1.75	≥1.73	≥1.73	≥1.73
Coefficient Of Thermal Expansion	Electrode	10-6 / °C	≤1.5	≤2.4	≤2.4	≤2.4
	Nipple		≤1.4	≤2.2	≤2.2	≤2.2
ASH		%	≤0.3	≤0.3	≤0.3	≤0.3

Note: 1.Koeffitsient ash content and thermal expansion as the reference index, the coefficient of thermal expansion (100 °C ~ 600 °C), Custom manufacturing.

Packing & Delivery



Packaging:

1. Standard export carton/plywood crate
2. Customized shipping mark
3. QC Department Will Check In Case The Packing Method Isn't Safe Enough.

Shipping:

1. By courier, like DHL, UPS, FEDEX, etc. It is door to door, usually, 3-4 days to arrive.
2. By air to the air port, usually, 5-7 days to arrive.
3. By sea to sea port, usually, 15-30 days to arrive.

Why Choose Us



WHY CHOOSE US?

Zhengzhou Rongsheng Kiln Refractory Co., Ltd



High quality

We are Manufacturer of refractory materials, We can provide you with high quality products at more competitive prices.



Top Rank Technical Team

Our technical engineers have many years of experience to meet customer product quality requirements



Advanced Equipment

Improve productivity and mass production



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