

High Power Graphite Electrode With Nipple UHP Graphite Electrode For EAF Electric Arc Furnace

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou, Henan, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: RP, HP, UHP
- Minimum Order Quantity: 1 Ton
- Price: 200-800 USD
- Packaging Details: packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 20-30DAYS
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month



Product Specification

- Ash Content: Low
- Bulk Density: High
- Compressive Strength: High
- Corrosion Resistance: High
- Electrical Conductivity: High
- Flexural Strength: High
- Material: Graphite
- Oxidation Resistance: High
- Resistance: Low
- Surface Quality: Smooth
- Thermal Conductivity: High
- Thermal Shock Resistance: High
- Highlight: High Power Graphite Electrode, Nipple UHP Graphite Electrode, Furnace Graphite Electrode

Product Description

High Power Graphite Electrode With Nipple UHP Graphite Electrode For EAF Electric Arc Furnace

Graphite electrode, mainly petroleum coke, needle coke as raw material, coal pitch as binder, calcination, ingredients, kneading, molding, baking and graphitization, machining and made, which is released in electric arc furnace in the form of arc conductor of electricity to heat melting furnace charge, with low resistivity, good conductivity, low ash, uniform and compact structure, good oxidation resistance, high mechanical strength, etc.

Graphite electrode has the advantages of low resistivity, high electrical conductivity and thermal conductivity, good oxidation resistance, good thermal shock resistance, high mechanical strength, easy to machine, etc.

Features of RP HP UHP Graphite Electrodes and Nipple For Electric Arc Furnace

1. Low electric resistance
2. Good electric and thermal conductivity
3. High density
4. High anti-oxidation capability
5. High mechanical strength
6. High machining accuracy

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Parameter of Graphite Electrodes and Nipple:

Item		Nominal diameter mm							
		75~130		150~225		250~300		350~450	
Grade		Excellent	—	Ex	—	Ex	—	Ex	—
Resistivity $\mu\Omega\cdot m \leq$	Electrode	8.5	10.0	9.0	10.5	9.0	10.5	9.0	10.5
	Connector	8.0		8.0		8.0		8.0	
Flexural strength MPa $\geq$	Electrode	10.0		10.0		8.0		7.0	
	Connector	15.0		15.0		15.0		15.0	
Elastic Modulus GPa $\leq$	Electrode	9.3		9.3		9.3		9.3	
	Connector	14.0		14.0		14.0		14.0	
Bulk density g/cm ³ $\geq$	Electrode	1.58		1.53		1.53		1.53	
	Connector	1.70		1.70		1.70		1.70	
Thermal expansion coefficient 10-6/ room temperature ~600 $\geq$	Electrode	2.9		2.9		2.9		2.9	
	Connector	2.7		2.7		2.8		2.8	
Ash % $\leq$		0.5		0.5		0.5		0.5	

High Power Graphite Electrodes

Item		Nominal diameter mm	
		200~400	450~500
Resistivity $\mu\Omega\cdot m \leq$	Electrode	7.0	7.5
	Connector	6.3	6.3
Flexural strength MPa $\geq$	Electrode	10.5	10.0
	Connector	17.0	17.0
Elastic Modulus GPa $\leq$	Electrode	14.0	14.0
	Connector	16.0	16.0
Bulk density g/cm ³ $\geq$	Electrode	1.60	1.60
	Connector	1.72	1.72
Thermal expansion coefficient 10-6/ Room temperature~600 $\geq$	Electrode	2.4	2.4
	Connector	2.2	2.2
Ash % $\leq$		0.5	0.5

Ultra High Power Graphite Electrode

Item		Nominal diameter mm		
		300~400	450~500	550~650
Resistivity $\mu\Omega\cdot m \leq$	Electrode	6.2	6.3	6.0
	Connector	5.3	5.3	4.5
Flexural strength MPa $\geq$	Electrode	10.5	10.5	10.0
	Connector	20.0	20.0	22.0
Elastic Modulus GPa $\leq$	Electrode	14.0	14.0	1.66
	Connector	20.0	20.0	1.78
Bulk density g/cm ³ $\geq$	Electrode	1.67	1.66	1.66
	Connector	1.74	1.75	1.78
Thermal expansion coefficient 10-6/ Room temperature~600 $\geq$	Electrode	1.5	1.5	1.5
	Connector	1.4	1.4	1.3
Ash % $\leq$		0.5	0.5	0.5

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