

## RP HP UHP Grades Available Graphite Electrode Nipples Dia 200-800mm For Electric Arc Furnaces

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: 20-30Days
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month



### Product Specification

- Highlight: RP Graphite Electrode Nipples, UHP Graphite Electrode Nipples, Electric Arc Furnaces Graphite Electrode Nipples

Our Product Introduction

### Product Description

#### Product Description of RP HP UHP Grades Available Graphite Electrode Nipples Dia 200-800mm For Electric Arc Furnaces At Competitive Prices

Discover our high-quality Graphite Electrode Nipples, specifically designed for use in electric arc furnaces. Available in diameters ranging from 150mm to 600mm, our nipples are crafted from premium carbon graphite, ensuring excellent performance and durability in high-temperature environments.



#### Key Features of RP HP UHP Grades Available Graphite Electrode

**Exceptional Conductivity:** Our graphite nipples provide outstanding electrical conductivity, facilitating efficient energy transfer during operations.

**High-Temperature Resistance:** Built to endure extreme thermal conditions, these nipples maintain their structural integrity for reliable use.

**Robust Construction:** Manufactured using high-grade materials, they are resistant to oxidation and wear, guaranteeing longevity.

**Versatile Sizes:** Offered in various diameters to accommodate your specific operational needs.

#### Applications of RP HP UHP Grades Available Graphite Electrode

Graphite electrode nipples are ideal for a range of applications, including:

**Electric Arc Furnaces:** Essential for steel production and metal recycling.

**Industrial Furnaces:** Suitable for various foundry applications.

**Chemical Processes:** Used in the production of silicon and other compounds.

#### Technical Parameter of Graphite Electrodes and Nipple:

##### Regular Graphite Electrode

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 <sup>3</sup> $\geq$	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 <sup>3</sup> $\geq$	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 ≤	Electrode	14.0	14.0	1.66
	Connector	20.0	20.0	1.78
Bulk density g/cm3 ≥	Electrode	1.67	1.66	1.66
	Connector	1.74	1.75	1.78
Thermal expansion coefficient 10-6/ Room temperature~600 ≥	Electrode	1.5	1.5	1.5
	Connector	1.4	1.4	1.3
Ash % ≤		0.5	0.5	0.5

**Quality Assurance**  
We adhere to strict quality control standards throughout the manufacturing process, ensuring each product meets international requirements. With over 20 years of experience in the refractory materials sector, we pride ourselves on delivering reliable solutions.

**Why Choose Rongsheng RP HP UHP Grades Available Graphite Electrode Nipples?**

**Industry Expertise:** With two decades of experience, we are recognized as leaders in the refractory materials market.

**Global Distribution:** Our products are exported to over 100 countries, making us a trusted supplier worldwide.

**Dedicated Customer Support:** We offer personalized solutions and attentive service to meet your specific needs.

**Contact Information**  
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Explore the advantages of our Graphite Electrode Nipples today and enhance your production processes with our reliable solutions!

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