

## 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**

### 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.

Our Product Introduction



**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<br>$\mu\Omega\cdot m \leq$                              | 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/<br>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<br>$\mu\Omega\cdot m \leq$                             | 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/<br>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<br>$\mu\Omega\cdot m \leq$ | 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/<br>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

For inquiries or to place an order, please contact us:

**Tel/Whatsapp:** +86-18538509097

**Email:** Jackyhan2023@outlook.com

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



Henan Rongsheng Xinwei New Materials Research Institute Co., Ltd



+86-18538509097



Jackyhan2023@outlook.com



bricksrefractory.com

11th Floors, Building 6, China Central Electronic Commerce Port, Daxue Road, Zhengzhou, Henan, China