

## High-Strength Wear-Resistant Phosphate Bonded Castable For High-Temperature 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: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month



### Product Specification

- Highlight: Wear Resistant Phosphate Bonded Castable, High Temperature Phosphate Bonded Castable, High Strength Phosphate Bonded Castable

Our Product Introduction

### Product Description

#### Product Description of High-Strength Wear-Resistant Phosphate Bonded Castable For High-Temperature Furnaces

Phosphate bonded castable is a high-performance unshaped refractory material known for its excellent wear resistance, high-temperature strength, and strong bonding properties. Designed to withstand extreme conditions, it is widely used in various high-temperature industrial furnaces and kilns. Compared with the calcium aluminate cement bonded castable, phosphate bonded castable has better cold crushing strength and thermal shock resistance.



### Key Features of Phosphate Bonded Castable

#### Outstanding High-Temperature Performance

The unique phosphate bonding provides exceptional thermal stability, enabling the castable to endure prolonged exposure to high temperatures without losing its structural integrity.

#### Superior Mechanical Strength

This castable exhibits exceptional load-bearing capacity, making it resistant to mechanical stress and abrasion even under severe working conditions.

#### Excellent Bonding and Adhesion

Its phosphate-based bonding system ensures superior adhesion, contributing to the long service life of industrial equipment.

#### Easy Installation

The material offers good workability, making it suitable for a variety of application methods, including pouring, ramming, or vibrating.

### Applications of Phosphate Bonded Castable

Phosphate bonded castables are ideal for use in:

Iron and steel industry: ladles, troughs, and furnaces

Non-ferrous metal smelting: melting and holding furnaces

Cement industry: rotary kilns and coolers

Petrochemical industry: reformers and reactors

### Advantages of Phosphate Bonded Castable

Resistance to thermal shock and chemical erosion

Enhanced durability under harsh environments

Customizable formulations to suit specific operating requirements

### Technical Specifications of Phosphate Bonded Castable

Our phosphate bonded castable products are available in various grades with customized specifications to meet diverse industrial needs. Contact us to discuss your requirements.

| Item                                      | Clay     | High alumina I | High |
|---|----------|----------------|------|
| Al <sub>2</sub> O <sub>3</sub> %          | 40~45    | 60~65          |      |
| SiO <sub>2</sub> %                        | 35~40    | 23~30          |      |
| CaO %                                     | 5~6      | 5~6            |      |
| Bulk Density(110 , 24h) g/cm <sup>3</sup> | 2.0~2.1  | 2.4~2.5        |      |
| Modulus of Rupture (110 , 24h) Mpa        | 4.5~6    | 5~6            |      |
| Cold compression strength(110 , 24h) Mpa  | 30~35    | 40~45          |      |
| Linear change rate(1350 ) %               | +0.1~0.3 | -0.1~0.3       |      |
| Working temperature                       | 1350     | 1450           |      |



Low Cement  
Castable



Dense Castable  
(Traditional )



Steel Fiber Reinforced  
Castable



Silicon Carbide  
Castable

**All products can be customized on demand**



Corundum Wear-resistant  
Castable



Acid Resistant  
Castable



Aluminum Non-Stick  
Castable



Castable Precast  
Blocks

#### Contact Us

For more information about phosphate bonded castables or to place an order, please get in touch:

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