

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 alumina II
Al ₂ O ₃ %	40~45	60~65	70~75
SiO ₂ %	35~40	23~30	15~20
CaO %	5~6	5~6	5~6
Bulk Density(110 , 24h) g/cm ³	2.0~2.1	2.4~2.5	2.6~2.7
Modulus of Rupture (110 , 24h) Mpa	4.5~6	5~6	6~7
Cold compression strength(110 , 24h) Mpa	30~35	40~45	50~55
Linear change rate(1350) %	+0.1~0.3	-0.1~0.3	-0.2~0.4
Working temperature	1350	1450	1550



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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