

High Performance Ladle Refractory Castable Durable Fire Resistant

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: 2000 tons/month



Product Specification

- Dry Bulk Density: $\geq 2.3\text{g/cm}^3$
- Durability: High
- Feature: Thermal Shock Resistance
- Flexural Strength: 3.0 Mpa
- Packing: Bag
- Permanent Linear Change: ± 0.4
- Refractoriness: 1800°C
- Rul: ≥ 1250
- Shape: Particle
- Shelf Life: 6 Months
- Thermal Conductivity: 2.5 W/mK
- Thermal Shock Resistance: High
- Type: Low Cement Castable
- Usage: Industrial Furnaces
- Volume Density: 2.6



More Images



Product Description

Description of High Performance Ladle Castable Best Quality Durable and Efficient Fire-Resistant Castable Refractory
Ladle castable refers to a specialized type of refractory material designed for lining steel ladles used in steelmaking processes. It is a high-performance material engineered to withstand the extreme conditions encountered within ladles, including high temperatures, thermal shock, chemical erosion from molten metal and slag, and mechanical wear. Ladle castables are typically composed of high-quality raw materials such as high-alumina aggregates, binders, and additives, which are carefully selected and combined to optimize performance and durability. These materials are mixed with water to form a slurry, which is then poured or cast into the ladle and allowed to cure, forming a solid lining. Ladle castables play a critical role in maintaining the integrity of ladles, ensuring the quality of molten steel, and extending the lifespan of ladle equipment in steelmaking operations.

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Features of High Performance Ladle Castable Best

Ladle castable mainly in large, medium and small ladle used. The product is long life, security and stability, is an ideal Ladle Refractories.

Application of Ladle Castable

Steel Ladle is used for steel plant, foundry work in open-hearth furnace, electric furnace and converter for receiving molten steel to pouring, and also used for glass kiln, steel furnaces, ceramic tunnel kiln, cement rotary kiln, and iron making furnaces.

Use ladle castable that is not only lower the manufacturing cost but also can lower workers' labor intensity, which is mainly performed on using agitator to conduct ladle castables during the construction process and completely takes advantage of mechanical equipment to raise labour productivity. But use magnesite carbon brick that will completely rely on workers' building by handwork, which is not only very hard but also constructed very slow. Consider steelmaking industry in our nation, steel ladle of converter steelmaking with lower 80 tons steel ladle commonly use refractory ladle castables.

Product Specification of Ladle Castable

Ladle Castable				
Index		Spinel	Aluminum & Magnesium	
Al ₂ O ₃ %		≥88	≥72	
SiO ₂ %		/	≥9.5	
MgO %		≥7	≥11	
Linear Change %	110 ×24h	0-0.2	0-0.2	
	1550 ×3h	0-0.8	0.5-1.5	
Bulk Density (g/cm ³)	110 ×24h	≥3.10	≥2.90	
	1550 ×3h	≥2.95	≥2.80	
Modules of Rupture (MPa)	110 ×24h	≥7	≥9	
	1550 ×3h	≥8	≥9	
Cold Crushing Strength (MPa)	110 ×24h	≥30	≥60	
	1550 ×3h	≥70	≥60	
Amount of water (%)		5.0-6.0	5.0-6.0	



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