

Steel Fiber Reinforced Castable For Enhanced Durability And Thermal Shock Resistance

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: 200-800 USD
- Packaging Details: Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 20-30 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month



Product Specification

- Highlight: Steel Fiber Reinforced Castable, Thermal Shock Resistance Castable, Enhanced Durability Castable

Our Product Introduction

Product Description

Product Description of Steel Fiber Reinforced Castable For Enhanced Durability And Thermal Shock Resistance:
 Our Steel Fiber Reinforced Castable is a specialized refractory material designed to withstand extreme conditions, offering superior durability and thermal shock resistance. By incorporating high-strength steel fibers into a high-quality refractory matrix, this castable achieves enhanced structural integrity, making it ideal for applications involving high mechanical stress and temperature fluctuations.



Composition of Steel Fiber Reinforced Castable

Base Material: High-purity refractory aggregates and binders, ensuring excellent thermal stability.

Reinforcement: High-strength steel fibers evenly dispersed throughout the castable to provide increased toughness and resistance to cracking.

Key Features of Steel Fiber Reinforced Refractory Castable:

Enhanced Mechanical Strength: The addition of steel fibers significantly improves the material's ability to withstand heavy mechanical loads and thermal stress.

Superior Thermal Shock Resistance: Designed to endure rapid temperature changes without compromising structural integrity, reducing the risk of spalling.

Excellent Corrosion Resistance: Offers robust protection against chemical attack and erosion, making it suitable for use in corrosive environments.

Improved Service Life: The reinforcement provided by steel fibers extends the operational life of the castable, reducing the frequency of repairs and maintenance.

Applications of Steel Fiber Reinforced Castable Refractory:

Iron and Steel Industry: Ideal for use in critical areas of furnaces, ladles, and other high-temperature equipment where mechanical stress is a concern.

Cement Industry: Suitable for rotary kiln linings and other components exposed to extreme temperatures and abrasion.

Non-Ferrous Metallurgy: Effective in furnaces and reactors where rapid temperature changes occur, ensuring consistent performance.

Incineration Plants: Used in the linings of incinerators and waste-to-energy plants, providing durability in harsh conditions.

Product Specification of Steel Fiber Reinforced Castable Refractory

Items		RS-F16	RS-F16K
Al ₂ O ₃ +SiC%	110 x24h	70	75
Bulk Density g/cm ³	110 x24h	2.6	2.7
MOR MPa	1110 x3h	11	12
	110 x24h	11	12
Cold Crushing Strength MPa	1110 x3h	90	100
	1110 x3h	90	100
Linear Dimensional Change %	110 x24h	±0.1	±0.1
	1110 x3h	±0.3	±0.3

Why Choose Our Steel Fiber Reinforced Castable?

With over 20 years of experience in producing high-performance refractory materials, our Steel Fiber Reinforced Castable is engineered to deliver the strength and resilience required for the most demanding industrial applications. Its advanced formulation ensures reliable performance, reduced downtime, and longer service life, making it a cost-effective choice for industries facing extreme operational conditions. Trust our expertise to provide the durable solutions your business needs to thrive in challenging environments.



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