Rongsheng Refractory Price Self-Flowing Monolithic Refractory Castable For Industrial Kilns Application

Our Product Introduction

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: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons/month

Product Specification

- Highlight: **Rongsheng Refractory Castable**, **Industrial Kilns Refractory Castable**, **Self Flowing Refractory Castable**

Our Product Introduction

Product Description

Introduction of Rongsheng Refractory Price Self-Flowing Monolithic Refractory Castable For Industrial Kilns Application

Self-flowing monolithic refractory castable is a highly advanced type of unshaped refractory material that requires no vibration during installation. This innovative material is designed to flow and fill molds or spaces under its own weight, making it an ideal solution for complex geometries and hard-to-vibrate areas.

Key Characteristics of Rongsheng Refractory Price Self-Flowing Monolithic Refractory Castable

Excellent Flowability: The self-flowing nature of this castable allows it to effortlessly fill molds and form structures without the need for external force or vibration. This property makes it especially suitable for intricate shapes and areas where traditional casting methods may be challenging.

High Density and Low Porosity: Due to its superior flowability, the castable forms a highly dense structure upon setting, which minimizes the presence of pores. This results in enhanced mechanical strength and durability in high-temperature environments.

Robust Mechanical Strength and Thermal Shock Resistance: The castable maintains high mechanical strength and excellent resistance to thermal shock, even under extreme temperatures. This ensures long-lasting performance and reliability in industrial applications.

Applications of Self-Flowing Castable Refractory

Self-flowing monolithic refractory castable is widely used in industries that operate under extreme thermal conditions, such as:

Iron & Steel: Lining for ladles, tundishes, and other high-temperature steelmaking equipment.
Petrochemical: Internal linings for reactors, furnaces, and refining units.
Power Generation: Refractory linings in boilers and incinerators.
Cement: Kiln linings and preheater sections.
This material is particularly advantageous in scenarios where traditional vibratory casting methods are impractical or impossible, such as in areas with complex geometries or restricted access.

Chemical and Physical Properties of High-Alumina Self-Flowing Castable

Item		Indic			
		SF50	SF55	SF60	
Al_2O_3,% ≥ *		50	55	60	
Bulk density, g/cm³ ≥	110 x24h After drying	2.25	2.30	2. 35	
Cold compressive strength, MPa ≥	110 x24h After drying	30	35	40	
	1350 x24h After drying	50	55	60	
Cold compressive strength, MPa ≥	110 x24h After drying	5	6	6	
	1350 x24h After drying	7	9	9	
Permanent linear change on heating, %	110 x24h After drying	±0.2	±0.2	±0.2	
	1350 x24h After drying	±0.5	±0.5	±0.5	
Self-flow value, mm		170 - 210 (Self-flow Method); 200 - 220 (Jumping Table			
Note: The items marked with "*" are acceptance inspection items.					

Chemical and Physical Properties of Corundum, Corundum Spinel, and Chrome Corundum Self-Flowing Refractory Castables

Item		Indicat			
		SF90	SF92	SF90M	
Al_2O_3,% ≥ *		90	92	-	
Al2O3 + MgO, % ≥ *		-	-	90	
Al2O3 + Cr2O3, % *		-	-	-	
Bulk density, g/cm³ ≥	110 x24h After drying	50	55	60	
Cold compressive strength, MPa ≥	110 x24h After drying *	5	6	6	
	1500 x24h After drying *	7	9	9	
Cold compressive strength, MPa ≥	110 x24h After drying	±0.2	±0.2	±0.2	
	1500 x24h After drying	±0.5	±0.5	±0.5	
Self-flow value, mm		170 - 210 (Self-flow Method); 200 - 220 (Jumping Table M			
Note: The items marked with "*" are acceptance inspection items.					

Advantages of Self-Flowing Refractory Castable
Ease of Installation: The self-flowing nature of the castable simplifies the installation process, eliminating the need for complicated vibration tools and techniques. This not only reduces labor costs but also shortens installation time.

Enhanced Durability: The high density and low porosity of the castable ensure excellent wear resistance and corrosion resistance, which significantly extends the lifespan of the lining.

Superior Performance: With its excellent mechanical properties and thermal shock resistance, self-flowing refractory castable provides a durable and reliable solution for high-temperature industrial applications.

Conclusion

Self-flowing monolithic refractory castable is a versatile and efficient solution for modern high-temperature industries. Its unique properties, including superior flowability, high density, and robust thermal performance, make it an essential material for complex refractory linings. Whether you're looking to optimize the performance of your steel, petrochemical, power, or cement operations, this castable offers a combination of ease of use and long-term reliability that is unmatched in the industry.

For more information or to inquire about our self-flowing refractory castable products, please contact us at:

Tel/Whatsapp: +86-18538509097
Email: Jackyhan2023@outlook.com

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