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Corundum spinel castable



Introduction: corundum spinel castable is made of fused white corundum, magnesia, or corundum spinel composite, silicon powder, and binder. It has good thermal shock resistance, slag resistance, scouring resistance, and high high-temperature bending strength. It has good application effect in large and medium-sized ladle, tundish, coreless induction furnace and other equipment.

1,Technical index of corundum spinel castable

ITEM		Unit	TRLM-1	TRLM-2
Al ₂ O ₃		%	80	90
MgO		%	10-13	5-8
Cr ₂ O ₃		%	<2	<3
Density		G/cm ³	≥2.75	≥2.80
Compression strength	110°C*24h	Mpa	≥60	≥80
	1600°C*3h	Mpa	≥80	≥90
Flexural strength	110°C*24h	Mpa	≥8	≥12
	1500°C*3h	Mpa	≥10	≥15
Linear change rate		1500°C, %	0-+1.0	±0.5
Working temperature		°C	≥1700	≥1700

2. Product description

Corundum spinel castable is a kind of high-grade refractory castable. As a ladle lining, the application of electric furnace lining has achieved good results. However, there are still three main problems: 1) the volume expansion accompanying the formation of in-situ spinel. Excessive expansion will lead to material cracking or spalling. The solution is to improve the thermal shock resistance of the product by adding 5% sintered spinel powder, which effectively realizes the high-temperature bending

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strength and thermal shock resistance. 2) high densification often leads to the reduction of the thermal shock resistance of the material. The thermal shock resistance of the material is improved by adding SiO₂ powder or ZrO₂ powder. 3) the reaction between the slag and the material has a serious impact on the damage of the material and high-quality steel, The slag penetration resistance of the material is improved by selecting the additives of different slag reactions and the matrix part of the reinforcing material, and improving the material bonding mode.

3 main features of the product

- 1) With good corrosion resistance, fused corundum as aggregate and spinel stone as matrix, the corrosion resistance of the product is greatly improved
- 2) It has good slag penetration resistance. The combination of high-quality electric melting raw materials and sintering raw materials makes the product have good penetration resistance
- 3) Good thermal shock resistance and high temperature volume stability
- 4) The product has high strength, which improves its erosion resistance

4 main uses of the product

Corundum spinel castables are mainly used for working linings of large and medium ladle, tundish and electric furnace

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

Do you want to find a professional supplier of corundum spinel castable?

Do you want to find a stable and credible supplier?

Then please contact with us

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