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Fused Cast Zirconia Brick



The crystal phase structure of fused cast zirconia brick is mainly inclined baddeleyite. The product has remarkable high temperature resistance, wear resistance and scouring resistance, effectively preventing the erosion of molten glass and no pollution to the molten glass. The products are suitable for various glass kilns, especially borosilicate glass kilns, aluminosilicate glass kilns and glass fiber kilns. The use effect is more prominent.

1,Product description

Fused cast zirconia brick is also called electrofused high zirconia brick. It is a refractory brick produced by melting and casting with high-purity zirconia raw material. Zirconia is the oxide with the strongest resistance to the corrosion of molten glass. The high zirconia brick produced by electrofused casting hardly produces stones and streaks in the process of use, and has no pollution to the molten glass. It is especially suitable for the furnace for producing high-grade glass. The use effect is more obvious, for example, sodium calcium glass furnace, borosilicate glass furnace, Aluminosilicate glass kiln and glass fiber furnace

The electrofused high zirconium brick has extremely high resistance to the corrosion of molten glass, low foaming rate and almost no pollution to the molten glass. Non shrinkage casting method (WS) is adopted, with high density, true specific gravity greater than 5.3g/cm³, normal temperature compressive strength greater than 400MPa, high temperature volume stability, excellent mechanical strength, scouring resistance and thermal shock resistance. It is a high-grade refractory product with very long service life.

2,Main performance parameters of fused cast zirconia brick

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Item		Unit	TR-WS-Z88	TR-WS-Z95
ZrO ₂		%	88-90	93-95
SiO ₂		%	<9	<5
Al ₂ O ₃		%	<1	<1
Na ₂ O		%	<0.05	<0.5
TiO ₂		%	<0.05	<0.05
P ₂ O ₅		%	0.05-0.15	0.05-0.15
Fe ₂ O ₃		%	<0.05	<0.05
Other		%	<1.0	<1.0
True specific gravity		g/cm ³	>5.1	>5.3
Density		g/cm ³	>4.7	>4.9
Cold crushing strength		%	>400	>450
Thermal expansion rate	1000°C	%	<0.65	<0.7
	1500°C		<0.1	<0.3
Thermal conductivity	1000°C	w/m.k	2.27	2.50
	1200°C		2.44	2.80
Mineralogical composition	Baddeleyite		89	94
	Glass phase		11	6
Casting method			WS	

3. Significant features of the product

- 1) It effectively prevents the erosion of the molten glass and does not pollute the molten glass
- 2) Almost no stones and streaks occur during use
- 3) Very strong, more than 400MPa, excellent wear resistance and scouring resistance
- 4) Low thermal expansion rate, good high temperature stability
- 5) The main mineral phase is oblique zircon, which has strong corrosion resistance to liquid glass and other substances

3. Product application

Fused zirconia brick is suitable for various glass furnaces, especially for borosilicate glass furnace, aluminosilicate glass furnace and glass fiber furnace

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

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

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