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Mullite Cordierite Brick



Mullite cordierite refractory brick is a high alumina brick with low creep rate and anti-stripping resistance. It is a new type of refractory brick applied to the furnace wall and furnace top of hot blast furnace. The most prominent feature of the product is low creep rate, $1200\text{ }^{\circ}\text{C} * 50\text{h} \leq 0.8\%$, good anti-stripping performance, $1100\text{ }^{\circ}\text{C}$ water cooling ≥ 100 times, and has low thermal expansion rate, good anti-scouring and corrosion resistance. The product is the preferred refractory brick for hot blast furnace in recent years, with good use effect.

1.Main performance parameters of Mullite Cordierite Brick

Mullite cordierite brick is produced by using synthetic mullite material and synthetic cordierite material as the main raw material and fired at high temperature in tunnel kiln. Synthetic mullite has good high temperature properties, such as higher fire resistance, higher load softening temperature, higher creep resistance and better peeling resistance. Synthetic cordierite has a low coefficient of thermal expansion. During sintering with mullite, small cracks are formed, which enhances the resistance to rapid cooling and heat, and has a stronger ability to resist peeling. The mullite cordierite refractory brick produced by using the remarkable characteristics of the two raw materials has the characteristics of low creep rate and high anti-stripping performance. Therefore, this product is also called low creep anti-stripping high alumina brick.

Masonry refractory bricks of hot blast furnace must have low creep rate、 good heat wave erosion resistance and corrosion resistance, and the mullite cordierite refractory brick has the above characteristics, meets the requirements of hot blast furnace masonry, and is more and more widely used in hot blast furnace wall and furnace top.

2,Technical index of Mullite Cordierite Brick

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Item	Unit	Value
Al ₂ O ₃	%	≥55
Fe ₂ O ₃	%	≤2.0
Refractoriness	°C	>1770
Density	g/cm ³	≥2.35
Porosity	%	Solid brick ≤22
		chequer brick ≤24
Compression strength	Mpa	Solid brick ≥45
		chequer brick ≥30
Refractoriness under load	°C	≥1400
Creep rate	0.2Mpa,1200°C*50h, %	≤0.8
Anti stripping resistance	1100°C water cooling,times	≥100

3.Main characteristic

- 1) Good anti-stripping performance, 1100 °C water cooling more than 100 times
- 2) Low high temperature creep rate, 1200 °C * 50h < 0.8%
- 3) Good high-temperature stability, refractoriness under load higher than 1400 °C
- 4) Good resistance to heat-resistant scour and atmospheric corrosion resistance

4. Main purpose

It is mainly used for furnace wall, furnace top, regenerator checker brick of hot blast furnace, and other industrial kilns with service temperature not higher than 1350°C

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 Mullite Cordierite Brick?

Do you want to find a stable and credible supplier?

Then please contact with us

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