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High Quality Clay Brick For Cement Kiln



1, Introduction: high quality clay bricks with low air porosity and quick cooling and quick heating resistance are used in preheaters of cement kilns. The three air ducts have achieved good application results. By adding refractory materials with excellent thermal shock performance, the product improves the quick cooling and quick heating resistance of traditional clay bricks and has good peeling resistance. At the same time, the apparent porosity of the product is lower than that of traditional clay bricks, effectively improving the wear resistance and erosion resistance

2, Technical index

Item	Unit	Value
Al ₂ O ₃	%	≥44
Fe ₂ O ₃	%	≤2.0
Density	g/cm ³	2.2-2.35
Porosity	%	≤19
Compression strength	Mpa	≥50
Thermal shock stability 1100°C, water cooling	times	≥15
Thermal expansion rate 1200°C	%	≤+0.6
Refractoriness under load	KD,°C	≥1390
Application area	Cement kiln preheater, three air ducts, wear-resistant, quenching and heating resistant areas of other kilns	

2. Product description

On the basis of traditional clay brick production process, high-quality clay brick with

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rapid cooling and heating resistance improves the product organizational structure and thermal shock resistance by adding refractory raw materials with thermal shock resistance. The added refractory raw materials include sillimanite, andalusite, zircon, mullite, etc. At the same time, increase the forming pressure, increase the firing temperature, reduce the porosity of the product, improve the strength, and enhance the wear resistance and corrosion resistance of the product. The long-term service temperature of the product is not higher than 1350 °C, which is often used in the preheater of cement kiln and the anti stripping area of other kilns

3. Main features of the product

Compared with ordinary clay bricks, high-quality clay bricks resistant to rapid cooling and heating have the following characteristics

- 1) The addition of additives improves the organizational structure, effectively improves the quenching and heating resistance and peeling resistance. Ordinary clay bricks are cooled by water at 1100 °C for 5-6 times, and this product is cooled by water at 1100 °C for ≥ 15 times
- 2) The apparent porosity is low and the degree of densification is high. The porosity of ordinary clay brick is $\leq 24\%$, and the porosity of this product is $\leq 19\%$
- 3) High strength, improved wear resistance, ordinary clay brick compressive strength $\geq 30\text{MPa}$, this product compressive strength $\geq 50\text{MPa}$
- 4) Ordinary clay bricks shrink during use, resulting in larger brick joints. This product produces less expansion during use, making the masonry structure more firm

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

Do you want to find a professional supplier of High Quality Clay Brick For Cement Kiln?

Do you want to find a stable and credible supplier?

Then please contact with us

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