

SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

Address:NO. 3, Yanhe Road, Boshan, Zibo, Shandong, China
Email:wp@cnjingganrefractory.com/sdwenping@163.com
Contact:Rose Tel/Wechat:+86-13275332819
Tel:86-533-4188518 Fax:86-533-4188518

Hot blast furnace silica brick



Hot blast furnace silica brick is a siliceous refractory brick with the main crystalline phase of tridymite. It is used to build the high temperature part of the hot blast furnace. Under the condition of long-term high temperature and load, the product volume is stable, high temperature creep is low, and can be used continuously for one or even two blast furnace ages.

1,Description of hot blast furnace silica brick

The silica brick of the hot blast furnace is made of quartzite with $\text{SiO}_2 > 98\%$ as the main raw material, added with mineralizing agent and binder, and fired at $1410\sim 1450\text{ }^\circ\text{C}$ after forming. The product has good thermal shock resistance above $600\text{ }^\circ\text{C}$, adapts to the variability of hot blast furnace temperature, and keeps the integrity of brick and masonry. The chemical corrosion resistance of the product is better than that of clay bricks and ordinary high-alumina bricks. The corrosion of alkaline substances in coal gas and smoke dust on the silica brick is limited to the formation of a layer of glass phase on the surface, without peeling. The thermal conductivity of silica brick is greater than that of clay brick and high-alumina brick, which is conducive to storing and releasing heat in a short time.

The silica content of hot blast furnace silica brick is not less than 95%, with good resistance to acid slag erosion, low high temperature creep rate, long-term use at high temperature without deformation, and can extend the service life of 7-8 years

2, Technical index of Hot blast furnace silica brick

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Item	Unit	Value
SIO2	%	≥95
Al2O3	%	≤1.0
Fe2O3	%	≤1.2
Porosity	%	Solid brick ≤22
		chequer brick ≤24
True density	g/cm3	Solid brick ≤2.34
		chequer brick ≤2.33
C.C.S	Mpa	Solid brick ≥40
		chequer brick ≥30
Refractoriness under load	KD, °C	≥1650
Creep rate	1550°C, 0-50h	≤0.8
Residual quartz	%	≤1.5
Thermal expansion rate	%	≤1.2

3, Product characteristic

1) Hot blast furnace silica brick is an acid refractory brick with good resistance to acid slag erosion, even in alkaline atmosphere, only a layer of glass phase is formed on its surface without peeling

2) The load softening temperature is high, 1650~1670 °C, and the volume is stable after long-term use at high temperature

3) The thermal conductivity is higher than clay brick and high-alumina brick

4) Good thermal shock resistance at high temperature, especially above 600 °C, its thermal shock resistance is better

4, Product usage: Hot blast furnace silica brick is mainly used in high temperature bearing parts of hot blast furnace, furnace wall, furnace top and checker brick

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 hot blast furnace silica brick ?

Do you want to find a stable and credible supplier?

Then please contact with us

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TEL: 86-0533-4188518 / FAX: 86-0533-4188518

Rose:+86-13275332819(wechat/whatsapp number)