

ZIBO JINGGAN REFRACTORY IMPORT AND EXPORT CO.,LTD

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Mullite Brick for Hot Blast Furnace



1,Product description:

Sintered mullite bricks made from synthetic calcined mullite are widely used in high-grade kilns such as hot blast stoves and blast furnaces because of their excellent suddenly-changing temperature resistance, good wear resistance, low creep rate performance and low reburning line change rate.

2,Index of Mullite Brick for Hot Blast Furnace:

Item	JM-65	JM-70	JM-80
Al ₂ O ₃ %	65	70	80
Fe ₂ O ₃ %	1.5	0.5	0.5
Refractoriness °C	1790	1790	1850
Apparent porosity %	24	20	21
Bulk density g/cm ³	2.5	2.55	2.7
Cold crushing strength Mpa	60	65	75
Refractoriness under load T ₂ , °C	1550	1700	1700
Reheating linear change %	1400°C×2h +0.2~-0.1	1450°C×2h +0.2~-0.1	1500°C×4h +0.2~-0.1

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Creep rate 0.2MPa×50h,%	1350℃,0.8	1450℃,0.6	1500℃,0.6
Thermal shock resistance, times	30	25	20

3,Knowledge of Mullite Brick for Hot Blast Furnace: Alumina content of products is generally 65-75%, mineral composition is mainly mullite phase, a small amount of corundum phase, glass phase. Refractoriness is greater than 1790℃, refractoriness under load is greater than 1550 ~ 1700℃. The products are divided into sintered mullite bricks and fused mullite bricks according to different production processes, according to the difference of alumina, it can be divided into three grades: JM-65, JM-70 and JM-80. The crystallization of fused mullite brick is larger than that of sintered mullite brick, and its thermal shock resistance is better than that of sintered product. The products are mainly used in hot blast stove, blast furnace, regenerator of glass furnace, petroleum cracking equipment, dry quenching coke oven, etc.

4,Main features of Mullite Brick for Hot Blast Furnace:

- 1, High refractoriness, >1790℃
- 2, High refractoriness under load, 1550~1700℃。
- 3, The creep rate at high temperature is low, 1500℃×25-50h, ≤0.6%
- 4, Good thermal shock resistance, 1100℃, water cooling, > 20 times.
- 5, Good corrosion resistance of acid-resistant slag

5,Factors influencing the properties of mullite bricks:

- 1, The Value of Al₂O₃/SiO₂ in Products
- 2, Types and Contents of Impurities in raw materials
- 3, Particle size of raw materials, firing temperature and holding time of products

6,Cautions in the use of Mullite Bricks

- 1, Contact with alkaline substances is prohibited in high temperature environment
- 2, It is not suitable to use in high water vapor content environment.

7. Good feedback of product use effect, the products have been exported to Australia, Oman, Kenya, and India.

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

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