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Magnesium Calcium Carbon Brick

Magnesia-calcium carbon bricks are mainly used in stainless steel refining furnaces, VOD steel furnaces, GOR converters, etc. in steel plants. They have good thermal shock resistance, spalling resistance, slag penetration and erosion resistance, and can also purify molten steel. When used in VOD furnaces, it is more durable than using semi-rebonded magnesia-chrome bricks. When used on the walls of LF furnaces, the loss rate is about 50% lower than when using aluminum-carbon bricks.

1. Product description of magnesia-calcium carbon bricks

Magnesia-calcium carbon bricks are alkaline refractory bricks produced with dolomite sand, magnesia, and flake graphite as the main raw materials. They use anhydrous resin as a binder and are completed through processes such as batching, mixing, molding, and heat treatment. The product's corrosion resistance to low alkalinity and low iron slag is better than that of magnesia carbon bricks. For high alkalinity slag, the melting loss is greater than that of magnesia carbon bricks. It is not advisable to add A1 and SI powder to the ingredients of magnesia-calcium carbon bricks. If A1 and SI powder are added, although the oxidation resistance can be improved, it will also increase the melting loss rate and reduce the durability. When used in masonry converters, electric furnaces, and steel refining furnaces outside the furnace, they should be built comprehensively with magnesia-carbon bricks. Magnesia-carbon bricks are laid in vulnerable parts, and magnesia-calcium carbon bricks are laid in other parts to achieve good use effects. . When used in VOD furnaces, it is more durable than using semi-rebonded magnesia-chrome bricks. When used on the walls of LF furnaces, the loss rate is about 50% lower than when using aluminum-carbon bricks.

2. Main technical parameters of the product

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Item	Unit	Mca250	Mca30czl	Mca40
CaO	%	≥15	≥15	≥15
MgO	%	≥80	≥70	≥66
C	%	≥3.0	≥5.0	≥8.0
Density	g/cm3	≥2.95	≥2.92	≥2.90
Porosity	%	≤6	≤6	≤5.5
C.C.S	Mpa	≥40	≥40	≥40
Max working temperature	℃	1750	1750	1750

3. Main product characteristics

1> Under high temperature and thermal stress, the stability performance is good. CaO prevents the reaction between MgO and C, suppresses the phenomenon of weight loss, loose structure, and decreased strength of the brick.

2> Has good high-temperature creep resistance, thermal stability, and slag hanging performance.

3> It has no pollution to the molten steel and can clean it.

4> Used for VOD furnaces, it has better durability than using semi bonded magnesium chromium bricks.

5> Used for LF furnace walls, the loss rate is reduced by about 50% compared to using aluminum carbon glass.

6>When used under low alkalinity and low iron slag conditions, the melting loss rate is lower than that of magnesia carbon bricks.

4. Purpose

Magnesium calcium carbon bricks are mainly used in the bottom and walls of VOD furnaces, GOR converters, LF furnaces, and other stainless steel production facilities

Do you want to find a professional supplier of Magnesium Calcium Carbon Brick?

Do you want to find a stable and credible supplier?

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