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Sintered Magnesia Alumina Spinel Raw Material



Sintered magnesia alumina spinel raw material is a high-grade refractory raw material with advantages such as high hardness, high melting point, low coefficient of thermal expansion, high porosity, high density, and low impurities. It is an ideal refractory raw material for producing ladle castables, magnesia spinel bricks, and other products.

1.Product main technical index

Item	HMAS-90	HMAS-76	HMAS-66	HMAS-50	MAS-30
Al ₂ O ₃	87-90	75-77	64-66	49-51	58-62
MgO	8-11	22-24	32-34	48-50	28-32
SiO ₂	≤0.18	≤0.20	≤0.30	≤0.35	≤3.00
Fe ₂ O ₃	≤0.17	≤0.20	≤0.30	≤0.40	≤2.00
CaO	≤0.25	≤0.30	≤0.50	≤0.65	≤1.50
Density	≥3.26	≥3.30	≥3.25	≥3.25	≥3.10
Porosity	≤1.7	≤1.7	≤2.0	≤1.5	≤2.0
mineral composition	Spinel	Spinel	Spinel	Spinel magnesite	Spinel magnesite
Grain size	0-30mm,Processing according to user requirements	0-30mm,Processing according to user requirements	0-30mm,Processing according to user requirements	0-30mm,Processing according to user requirements	0-30mm,Processing according to user requirements

2. Product description

Sintered magnesia-aluminum spinel raw materials are divided into 5 quality levels, namely HMAS-90, HMAS-76, HMAS-66, HMAS-50, and NCAS70-30. Among them, HMAS-90, HMAS-76, HMAS-66, and HMAS-50 are alumina-grade spinel materials, which are produced using industrial alumina and high-purity light-burned magnesia

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powder as the main raw materials. MAS70-30 is alumina-grade spinel materials. Spinel material, the main raw materials are special grade bauxite and high purity light burned magnesium powder. The production process of the 5 types of products is ingredients-mixing-shaping-sintering in high-temperature rotary kiln-testing-crushing into various particle sizes-packaging. This product is a high-grade refractory raw material with low impurity content, low density, low porosity, low thermal expansion coefficient, good thermal shock resistance, strong slag corrosion resistance, strong oxidation resistance, good erosion and wear resistance, etc. It is an ideal raw material for the production of ladle castables, cement kiln castables, steel drum castables, glass kiln castables and other high-grade castables for industrial furnaces. It is also the main raw material for the production of spinel refractory bricks.

3. Product main features

- 1> Few impurities, high purity, Fe_2O_3 content of alumina grade spinel material is 0.17-0.40%.
- 2> High density, the density of alumina grade spinel material is greater than 3.25g/cm^3 .
- 3> Low thermal expansion coefficient, good thermal shock resistance,
- 4> After being made into refractory products, they have good slag corrosion resistance, oxidation resistance, and wear resistance.

4. Main applications of products

- 1) It is an ideal raw material for the production of ladle castables, cement kiln castables, steel drum castables and other high-grade castables for industrial furnaces.
- 2) It is the main raw material for the production of spinel refractory bricks

Do you want to find a professional supplier of Sintered magnesia alumina spinel?

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