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Alumina Hollow Ball Castable



Alumina hollow ball castable is a high temperature refractory and thermal insulation material made of alumina hollow ball. Its service temperature is 1600-1700 °C, its load softening temperature is high, its strength is large, and its thermal insulation performance is good. It is often used for the lining of carbon black reaction furnace and high temperature furnace.

1. Description of alumina hollow ball castable

Alumina hollow ball castable is a kind of advanced refractory castable with high temperature resistance and good heat insulation performance. The light heat insulation filler used is alumina hollow ball, while alumina hollow ball is a new type of high temperature heat insulation material, which is made by melting and blowing industrial alumina in an electric furnace. The crystal form is α -Al₂O₃ microcrystal, temperature resistance up to 1800 °C. The lightweight insulating castable produced with aluminum oxide hollow ball has small density, low thermal conductivity, good thermal shock stability, high load softening temperature, and large strength. Its service temperature is 1600-1700 °C. It is often used as the lining of carbon black reaction furnace, metallurgical and chemical high-temperature furnaces. It is used in various atmospheres with stable performance and long service life.

2. Technical index of alumina hollow ball castable

Item		Unit	TR-1	TR-2
Al ₂ O ₃		%	≥85	≥94
Fe ₂ O ₃		%	≤1.0	≤1.0
CaO		%	3-4	2-3
Density		g/cm ³	1.4-1.5	1.5-1.6
Cold crushing strength	110°C	Mpa	≥12	10≥
	1500°C		≥14	≥25
Flexural strength	110°C	Mpa	≥5	≥4
	1500°C		≥7	≥12

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Refractoriness under load	T0.6, °C	≥1600	≥1620
Thermal conductivity	W/m.k	1000°C, ≤0.82	1000°C, ≤0.65
Porosity	%	≤50	≤50
Working temperature	°C	>1600	>1700

3. Main characteristics of alumina hollow ball castable

- 1) High temperature resistance, operating temperature 1600-1700 °C
- 2) Good chemical stability, suitable for various environments
- 3) Low thermal conductivity, good energy-saving and thermal insulation effect
- 4) High strength, good erosion resistance

4. Product use

Mainly used for carbon black reaction furnace, metallurgical and chemical high temperature furnace lining

5, Good feedback of product use effect, the products have been exported to South Korea, Indonesia, Hong Kong...

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 alumina hollow ball castable?

Do you want to find a stable and credible supplier?

Then please contact with us

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