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Waterless Taphole Clay



1. Main raw materials and production

Main raw materials and properties of the product:

- 1) Coke powder, coke powder is characterized by high porosity, good thermal conductivity and conductivity, good slag resistance and thermal shock stability, so that the taphole maintains reducing atmosphere.
- 2) The function of silicon carbide is to fill the gap between aggregate particles and form refractory matrix, so that the product has better slag resistance, high temperature structural strength and thermal shock stability, and improve slag erosion resistance and scouring resistance
- 3) The function of brown corundum is to improve the resistance to slag iron erosion line, chemical erosion of slag and high temperature structural strength of products
- 4) Bauxite plays a role of skeleton in products, and brown corundum is used as aggregate
- 5) Sericite can improve the strength of the product at medium and low temperature. It can be used as a bond. Adding superfine powder can make the product have good

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lubrication performance

6) Clay powder (white mud) as a soft plastic raw material, sintered at 900-1400 °C, has a certain hardness and wear resistance

7) Silicon nitride, improve the effective performance of products

8) High temperature asphalt or modified asphalt is used as a carbon binder to help the binder play a strengthening effect and make the product have better high temperature structural strength. The softening temperature of the selected asphalt is greater than 100 °C

9) Resin is often used as binder, which can release less harmful substances and is more environmentally friendly

Raw material ratio: 20-40% coke powder, 20% clay powder, 10% asphalt, 10% brown corundum, 10% silicon carbide, 5-7% sericite, 13-14% binder

2. Requirements of the iron outlet for the Waterless Taphole Clay

1) Good plasticity, can smoothly push the taphole from the taphole clay, and block the iron outlet

2) It has fast drying, fast hard performance, hardening in a short time, and high strength

3) Good opening performance, so that the tapping port can be opened smoothly

4) High temperature, slag iron erosion and erosion resistance, to ensure the stability of iron flow

5) The volume stability is good, and has a certain porosity, so that volatile components in the gun mud can escape smoothly without cracks, so as to ensure the sealing of iron mouth

6) No environmental pollution

3. Operation rules for the use of Waterless Taphole Clay

1) Under normal conditions, the product shall be placed at the iron port 2 hours in advance, and the furnace shell on both sides of slag mouth shall be baked and preheated to ensure that the furnace shell at both sides of slag mouth reaches 50-100 °C before charging, and the best temperature is about 70 °C

2) Fill the product with good before each opening

3) After the slag is discharged, the 500mm long front end with taphole clay is moved to the iron port. The slag mouth is baked naturally for about 5 minutes (about 500mm away), and then it is extruded and cut out slightly for use

4) When plugging the port, all the taphole clay shall be driven in, and the blasting time is about 15 minutes. It can be cooled by spraying water around the iron port and slag mouth

5) The gun shall be returned immediately after the gun is withdrawn, and then loaded

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with 20kg light taphole clay, and the remaining slurry shall be extruded for use

6) The next time the preheat taphole clay is loaded, the soft taphole clay at the front can be extruded out, and the light gun mud can be reused

7) Please check the coking condition of cascade every time. If coking occurs, please clean it with steel rod

4. Product shape: Most of them are cylinders, and cuboid, the size can be produced according to the user's requirements

5. Packing: each piece is wrapped with plastic film and then put into ton bag

6. Main performance parameters of the product

Item	Unit	Value
Al ₂ O ₃	%	20-25
SiO ₂	%	>35
SiC+C	%	±25
Si ₃ N ₄	%	4-6
Density	g/cm ³	1.6-1.8
Compression strength	Mpa	>8
Flexural strength	Mpa	>3
Porosity	%	<30
Linear rate of change 1400℃*3h	%	±0.5
Mahayana value	50℃, Mpa	0.45-0.7

7, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

8, 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 Waterless Taphole Clay?

Do you want to find a stable and credible supplier?

Then please contact with us

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