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Coal Gasification Furnace Castable



Introduction: The working conditions of the coal gasification furnace require that the refractory castable of the working lining should have the following properties: high temperature resistance, dust erosion resistance, gas resistance, water vapor corrosion resistance, excellent thermal shock resistance, etc. the castable of the coal gasification furnace produced by our company is suitable for the requirements of different equipment and devices, and the service life is more than 5 years

1. Product description of castable for coal gasification furnace

Coal gasifier is a device that gasifies pulverized coal to produce gas. During operation, pulverized coal, dust, steam and other gases will wear, corrode and react to the refractory working lining, resulting in the damage of the refractory working lining. The coal gasifier is divided into gasifier main body, return feeder, cyclone separator, flue, dust collector, waste heat boiler and other equipment. Our company produces different castables for coal gasifiers according to different equipment working conditions, including wear-resistant castables for gasifier body, plastic returnable castables, steel fiber castables for cyclone separators, scour resistant castables for flue, etc. different coal gasifier castables have different special properties, meet the use requirements of different equipment, and have a service life of more than 5 years

2. Main performance parameters of castables for coal gasification furnace

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Item		Corundum mullite castable	Wear resistant plastic refractory	Steel fiber castable	Mullite castable
Al ₂ O ₃ ,%		≥70	≥60	≥60	≥55
Density,g/cm ³		≥2.65	≥2.6	≥2.6	≥2.45
Compression strength,Mpa	110℃*24h	≥60	≥55	≥55	≥40
	1100℃*3h	≥80	≥70	≥70	≥55
Flexural strength,Mpa	110℃*24h	≥7	≥6	≥6	≥4
	1100℃*3h	≥11	≥10	≥10	≥7
Linear change rate , 1100℃*3h, %		≤-0.3	≤-0.4	≤-0.4	≤-0.5
Wear resistance, cm ³		After burning at 1000 °C ≤5		After burning at 1000 °C ≤6	After burning at 1000 °C ≤6
Thermal shock resistance		1000℃ water cooling ≥20times		1000℃ water cooling ≥30times	
Application area		Gasifier body	loop seal	cyclone separator	Flue, dust collector

3. Main characteristics of castables for coal gasification furnace

- 1) Wear resistance, excellent erosion resistance, wear resistance ≤ 5
- 2) It is resistant to water vapor, dust and gas corrosion
- 3) High strength, stable performance at high temperature, linear shrinkage 110 °C *3h $\leq -0.3\%$
- 4) Good thermal shock resistance, 1000 °C water cooling ≥ 20 times

4. Application

The refractory castables with different properties produced by our company according to different equipment working conditions of coal gasifiers are applied to different equipment, which meet the use requirements and have a service life of more than 5 years. At the same time, these products are also applicable to the scouring and corrosion resistant areas of other thermal equipment

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

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

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