

SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

Address:NO. 3, Yanhe Road, Boshan, Zibo, Shandong, China
Email:wp@cnjingganrefractory.com/sdwenping@163.com
Contact:Rose Tel/Wechat:+86-13275332819
Tel:86-533-4188518 Fax:86-533-4188518

Pellet Firing Furnace Castable



Introduction:

The Pellet firing furnace castable are used in the whole pelletizing furnace production line. According to the different parts used, they are divided into kiln head castables, ring cooler receiving hopper castables, high temperature flue coating castables, air duct castables, etc. These products have received good results after being used in different parts. They are not only resistant to high temperature and wear, but also anti burst, dust and gas erosion. Compared with traditional castables, the service life of pellet castables produced by our company is increased by 2-3 times

1.Product description of Pellet firing furnace castable

In the whole pellet production line, the shrinkage of the kiln head of the rotary kiln and the receiving hopper of the ring cooler are the parts with the worst production conditions. Not only the temperature is high, but also the erosion and wear are the most serious. In view of this situation, our company has greatly improved the service life of the pellet kiln head and the receiving hopper of the ring cooler, from the original 6-8 months to 12-18 months

The coating material for the high-temperature flue of the pellet furnace produced by our company is a medium heavy refractory material, which has both erosion resistance and energy-saving and heat insulation performance. It solves the problem that some parts cannot be sprayed and poured. The important thing is to improve the service life to more than 5 years

In general, the lower part of the kiln head cover and the top of the cover, the front end and the top of the cooler bear a high heat load, and the dust airflow scouring is also serious. The early strength explosion-proof castable produced by our company does not burst under high temperature and has high strength, which meets the use requirements of these parts

2,Main performance parameters of pellet furnace castables

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Item		Early strength explosion-proof castable	Coating material	Castable
Al ₂ O ₃ ,%		≥70	≥40	≥75
Density,g/cm ³		≥2.55	1.7±0.1	≥2.65
Compression strength,Mpa	110℃*24h	≥80	≥15	≥80
	1100℃*3h	≥100		≥120
Flexural strength,Mpa	110℃*24h	≥8	≥3	≥12
	1100℃*3h	≥12		≥14
Linear change rate, 1100℃*3h, %		≤-0.3	≤-0.4	≤-0.2
Wear resistance, cm ³		After burning at 1100℃*3h ≤6		
Thermal conductivity W/m.k			1000℃ ≤0.65	
Thermal shock resistance				1000℃ water cooling ≥40times
Application area		Kiln head cover lower part, cover top, cooler front, top	flue	Kiln head necking, ring cooler receiving hopper

3. Main features of pellet furnace castables

- 1) Compared with the traditional castables, the castables in the receiving hopper of the annular cooler have higher strength, better erosion resistance, stronger thermal shock resistance and longer service life
- 2) High temperature flue coating material is wear-resistant, energy-saving and heat insulation, protecting the equipment
- 3) Explosion proof castable does not burst at high temperature and has excellent thermal shock resistance

4. Application of castables for pelletizing furnace

The products are applied to the kiln head, annular cooler, flue and other parts of the pellet furnace, and are also applicable to the scouring and thermal shock resistant areas of other kiln 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

Do you want to find a professional supplier of Pellet firing furnace castable?

Do you want to find a stable and credible supplier?

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Then please contact with us

Contact me:

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TEL: 86-0533-4188518 / **FAX:** 86-0533-4188518

Rose:+86-13275332819(wechat/whatsapp number)