

ZIBO JINGGAN REFRACTORY 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

Chromium Corundum Castable for Electric Furnace Top



1,Description of Chromium Corundum Castable for Electric Furnace Top:

A small amount of chromium oxide raw material or high quality chromium ore is added to corundum castable to form corundum phase and chromium corundum phase structure in the process of high temperature use. It has better chemical inertia, high temperature resistance, wear resistance and corrosion resistance, and has superior use effect.

2,Index of Chromium Corundum Castable for Electric Furnace Top:

Model		JDR-85	JDR-88
Item			
Chemical composition %	Al ₂ O ₃	≥85	≥88
	Cr ₂ O ₃	2-5	2-5
	CaO	≤1.5	≤1.5
Bulk density g/cm ³	110℃*24h	≥2.95	≥3.00
	1500℃*3h	≥2.90	≥2.95
Crushing strength MPa	110℃*24h	≥80	≥80
	1500℃*3h	≥100	≥110
Linear change rate %	1500℃*3h	±0.5	±0.5

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3,Application Knowledge of Chromium Corundum Castable for Electric Furnace Top

- 1)In the process of high temperature application, Cr_2O_3 transfers to the slag, which improves the viscosity of the slag, thus inhibiting the further penetration and erosion of the slag to the product.
- 2) Al_2O_3 and Cr_2O_3 form solid solution at high temperature, which improves the high temperature performance and corrosion resistance of products.
- 3)Because of its good high temperature stability, the products are widely used in electric furnace roof, Top Cover of Electric Furnace, refining furnace, melting furnace, carbon black reaction furnace, incinerator.

4,Application of products in carbon black reactor:

The temperature of carbon black reaction furnace is as high as 1925°C . It is correct to choose Cr_2O_3 -rich chromium corundum castable products, the melting point of this castable is as high as $2275\text{-}2300^\circ\text{C}$. The product uses synthetic compact chrome corundum sand as the main raw material, and adds Al_2O_3 and Cr_2O_3 ultrafine powder to form high performance duplex phase in the process of high temperature use, which increases the working temperature by $150\text{-}170^\circ\text{C}$, effectively improves the use effect and prolongs the service life. Masonry of products with $\text{Cr}_2\text{O}_3 \geq 70\%$ in carbon black reactor, at lower operating temperature, the product with lower Cr_2O_3 content is used for masonry. Such use not only reduces the cost, but also ensures the overall service life of the furnace.

5,Packaging and Storage:

Packed in waterproof and moisture-proof kraft paper bags, stored in dry environment for more than 6 months.

6.Good feedback of product use effect,the products have been exported to Pakistan, Russia, Australia

7.The manufacturer is a professional manufacturer and can provide complete product index test reports or third-party test reports.

Do you want to find a professional supplier of refractory products?

Do you want to find a professional supplier of graphite electrodes?

Do you want to find a stable and credible supplier?

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Contact me:Email:wp@cnjingganrefractory.com/sdwenping@163.com

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

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