

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

Aluminum Zirconium Carbon Quality Slide Plate



The Al₂O₃-SiO₂-ZrO₂ series raw materials with low expansion rate are used for the aluminum zirconium carbon slide plate to make the slide plate product characterized by carbon bonding, which is mainly composed of clinozoite, mullite and corundum. The product has excellent heat shock resistance and corrosion resistance, and its use effect is obviously better than that of the aluminum carbon slide plate.

1,Description of Aluminum Zirconium Carbon quality Slide Plate

Aluminum zirconium carbon slide plate is developed and produced on the basis of burning aluminum carbon slide plate. Zirconium mullite is introduced as aggregate. Zirconium oxide in zirconium mullite undergoes crystal transformation at about 1000 °C , which is characterized by volume shrinkage and microcracks in grains, greatly improving the thermal shock resistance of the product. Secondly, ZrO₂ has excellent corrosion resistance, which is significantly improved compared with aluminum carbon sliding plate, Become the mainstream product in the use of skateboards in large steel enterprises.

The main raw materials used for aluminum zirconium carbon quality slide plate are corundum, zirconium corundum, zirconium mullite, carbon, phenolic resin as the binder, aluminum, silicon, boron carbide as the additive. Compared with aluminum carbon slide plate, it has better thermal shock resistance, corrosion resistance, thermal shock stability, erosion resistance and other characteristics. It has been used well in large steel ladles and tundishes.

2,Main performance parameter of aluminum zirconium carbon quality slide plate

Item	Unit	Value
Al ₂ O ₃	%	70-80
C	%	6-8
ZrO ₂	%	5-9
Porosity	%	5-6

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Density	G/cm3	3.10-3.30
Cold crushig strength	Mpa	150-220
High temperature bending strength	1400°C*0.5h, reducing atmosphere, Mpa	15-25
MemoryUsage		Large ladle 3-6times Medium ladle4-8times

3,Main characteristic of product

- 1) High density, high strength and good erosion resistance
- 2) Excellent corrosion resistance and oxidation resistance
- 3) Excellent heat shock resistance and rapid cooling and heating resistance
- 4) Long service life, more than 4 times of use

4, Main purpose

It is often applied to medium and large steel ladles and tundishes with good effect

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 aluminum zirconium carbon quality slide plate?

Do you want to find a stable and credible supplier?

Then please contact with us

Contact me:

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

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

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