

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 titanate ceramic tube



Aluminum titanate smoke ceramic tube has high room temperature and high temperature strength, good corrosion resistance, low thermal expansion coefficient, and good thermal shock resistance, especially with the characteristic of not infiltrating drilling fluid. Therefore, it is often used as an ideal material for aluminum liquid riser, nozzle, and riser.

1. Main technical index of Aluminum titanate ceramic tube

item	unit	value
B.D	g/cm ³	3.3-3.5
Room temperature flexural strength	Mpa	40-60
Apparent porosity	%	≤8
Thermal expansion coefficient	*10 ⁻⁶ /°C	0.5-1.2
Thermal conductivity	W/m.k	0.86

2. Product Description

Aluminum titanate ceramic tube is produced by scientifically proportioning aluminum oxide powder and titanium dioxide powder. Its structure belongs to the rhombohedral system, and its biggest feature is that it does not infiltrate with non-ferrous metal melts such as aluminum liquid, that is, it does not stick to aluminum. In addition, it has excellent impact resistance, low thermal expansion coefficient, and good corrosion resistance. It is an ideal material for drilling fluid lifting tubes, with a long

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service life and low replacement frequency.

Aluminum titanate ceramic tube is produced by injection molding, drying, and firing. In addition to the main raw material for synthesizing aluminum titanate material, there are also additives such as mullite, magnesia alumina spinel, Dongshi stone, and alkaline magnesium carbonate. During use, the product comes into direct contact with aluminum solution (700 °C -900 °C). Every 3-5 minutes, the aluminum titanate ceramic rising tube adds aluminum solution to the mold cavity without slag or explosion, and the use effect is superior to quartz ceramic tube, stainless steel tube, etc.

3. Main features of the product

- 1> Do not infiltrate with non-ferrous metal solutions such as aluminum liquid and copper liquid.
- 2> Good corrosion resistance.
- 3> Lower coefficient of thermal expansion.
- 4> Good heat shock resistance.
- 5> Long service life, no residue or explosion during use.

4. Main purpose of the product

Mainly used as a riser in the casting process of aluminum liquid, steel liquid, etc

Do you want to find a professional supplier of Aluminum titanate ceramic tube?

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)