

# SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

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## Wear Resistant Ceramic Tube



The wear-resistant ceramic pipe is a composite type, with an inner lining of alumina ceramic and an outer shell of metal. The alumina ceramic is sintered at 1700 °C and has the characteristics of high hardness, high wear resistance, corrosion resistance, and high temperature resistance. It is firmly combined with steel pipes and can effectively resist the impact and wear of transported materials, effectively improving the service life of the pipeline

### 1. Product description of wear-resistant ceramic tube

Wear resistant ceramic pipes fully utilize the advantages of high strength, good toughness, impact resistance, and good welding performance of steel pipes, as well as the high hardness, wear resistance, corrosion resistance, and high temperature resistance of alumina ceramics, overcoming the defects of low hardness, poor wear resistance, and poor ceramic toughness of steel pipes. The product is an ideal material for conveying materials, grinding media, and corrosive media.

Centrifugal cast wear-resistant ceramic pipes are composite pipes that form a uniform, dense, and smooth ceramic layer at high temperatures and speeds. The product is widely used in industries such as power, metallurgy, mining, coal, and chemical

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engineering, serving as an ideal pipeline for conveying materials, corrosive media, and more.

## 2. Main technical index of Wear resistant ceramic tube ceramic sheet

Item	unit	value
Al <sub>2</sub> O <sub>3</sub>	%	93-98
HRA		70-80
C.C.S	Mpa	700-800
Bending strength	Mpa	200-280
density	G/cm <sup>3</sup>	3.0-3.5
Wear rate	P=76N,n=800revolutions/mins,t=30mins	0.0002g,about 10 times that of ordinary steel pipes
Application temperature	°C	-20°C - 1000°C

## 3. Main characteristics of wear-resistant ceramic tubes

- 1) The alumina ceramic layer has high hardness and good wear resistance, with a wear resistance rate about 10 times that of ordinary steel pipes.
- 2) High temperature resistance, can be used for a long time at around 750 °C.
- 3) Good corrosion resistance, capable of transporting different corrosive media.
- 4) High compressive strength and flexural strength, not easily deformed
- 5) Firmly combined with steel pipes, easy to install.

## 4. Main purpose of the product

Widely used in material transportation in industries such as mining, coal yards, metallurgy, and chemical engineering.

Do you want to find a professional supplier of Wear resistant ceramic tube?

Do you want to find a stable and credible supplier?

Then please contact with us

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