



**Zirconia  
Toughened Alumina**



**SHIWEI INTERNATIONAL**

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## ZTA Zirconia Toughened Alumina

Zirconia toughened alumina ceramic liner is a kind of material mainly composed of alumina (AL<sub>2</sub>O<sub>3</sub>), supplemented with other ingredients, sintered at high temperature, widely used in thermal power, steel, smelting, machinery, coal, mining, chemical, cement, port and other enterprises of the coal transportation, transportation systems, pulverizing systems, ash, dust removal system, and all other wear and tear on the mechanical equipment, according to different needs can choose different types of products.

Based on different application environments, the below products with different shapes are developed.



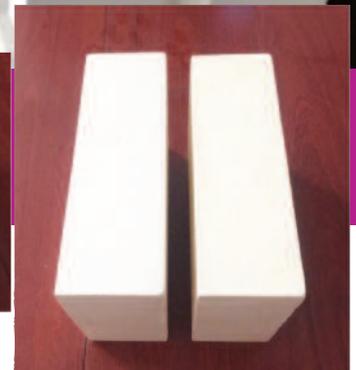
Zirconia is one of the most widely specified, general-purpose technical ceramics. It is recommended that materials and components are custom-made for their suitability for a specific application.

### Features:

1. Wear resistance: alumina corundum ceramics, with a hardness of more than HRA89, have a wear-resistance performance of 280 times that of manganese steel and 190 times that of chromium steel;
2. Shock resistance: toughened ceramic formula ensures they are not easy to break, unique spherical design and high quality buffer layer resists impact of large materials;
3. High temperature resistant, can run long in - 40°C – 290°C;
4. Acid and alkali resistance: the new formula can resist weak acid and alkali;
5. Anti-peeling: the ceramic rubber steel plate is vulcanized in one body, and the binding is very firm. Each piece of ceramic has a penetration bolt through the bottom plate, which is welded and double protected.
6. Convenient installation and replacement:



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- the entire liner plate is used to provide replacement and installation, reducing after-sales service;
7. Reduced maintenance: the service life is increased and a large number of costs and labor are saved.

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