

# Zirconia Toughened Alumina

## Alloys Powder

An alloy is a mixture of chemical elements of which at least one is a metal. Unlike chemical compounds with metallic bases, an alloy will retain all the properties of a metal in the resulting material, such as electrical conductivity, ductility, opacity, and luster, but may have properties that differ from those of the pure metals, such as increased strength or hardness.

Zirconia Toughened Alumina Alloy Powder can be used as the ideal intermediate solution between zirconia and alumina. It is also known in industry as ZTA. (ZTA) ceramics are very promising materials for structural and applications due to their high hardness, fracture toughness, strength, corrosion and abrasion resistance and excellent biocompatibility.

**Stock No:**  
**NS6130-07-726**

**Formula**  
**Zr:Al<sub>2</sub>O<sub>3</sub>**

- Used in joint replacement and rehabilitation
- Uses in cutting tools
- Pump components
- Valve seals
- Bushings

**CAS** : 1314-23-4/1344-28-1

**Form** : Powder

**Purity**  
**99.9%**

**APS:**  
**15µm**



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