



# *Uniceram Advanced Materials, Inc.*

.....A provider of quality ceramic products.....





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## **Our Product Range:**

### **✚ Wear Resistant Parts-**

- Textile and Wire Drawing guides
- Mechanical and Chemical Seals
- Alumina Grinding Media
- Ytria Stabilized Zirconia Microgrinding Media
- Ceramic Coatings

### **✚ Insulators-**

- Resistor Casing
- Fuse Bodies
- Ignitors
- Heat Resistant Interlocking Beads

### **✚ Porous Filters-**

- Honey Comb Filters
- Acid Filters
- Vaporization wicks

### **✚ Refractory Materials-**

- Crucibles
- Ferrules
- Thermocouple Sheaths
- Coil Supports
- Infra-Red Heaters
- Assay Testing Ceramics
- Ceramic Rollers for Tile Industry



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## **What is YSZ Grinding Media?**

YSZ Grinding Media is made of Yttria Stabilized Zirconia Polycrystal.



Zirconia, in its unstabilized form has monoclinic, square or cubic crystal phases. On partial stabilization by Yttria (Yttrium Oxide), the resultant phase is tetragonal tetrahedral, similar to diamond, thus endowing it with very high hardness & wear resistance along with high chemical inertness, making it the best material for grinding media applications.

After consistent efforts, the research team at Uniceram Advanced Materials has developed the grinding media that meets all the demands of the grinding and dispersion processes of the industries.

## **Typical Applications of YSZ Media:**

- ✦ Paint Industry: For the high purity grinding of paints and creation of paint dispersions.
- ✦ Electronic industry: Magnetic materials, piezoelectric materials, dielectric materials for high purity grinding where the media should not decolour the mix being ground or cause any impurity due to wearing of the media.
- ✦ It is used in food and cosmetic industry due to its lack of contamination to in the materials being ground.
- ✦ For high purity grinding and mixing in Pharmaceutical industry due to its extremely low wear rate.





