



The high strength of tetragonal zirconia ceramics



- High quality
- High stable grinding
- High density
- High wear resistance Zirconia balls

## Feature

- ◆ The highest density of all ceramics materials over 6.0 , suitable for high-intensity grinding and grinding purposes.
- ◆ Special high-purity sintering process, can completely avoid pollution of the metal, ions, almost without impurities such as SiO<sub>2</sub>, MgO.
- ◆ Unique to manufacture, TORYceram has perfect appearance, surface smooth. Compared with traditional products, it's almost no surface damage. Compared with Al<sub>2</sub>O<sub>3</sub>, it has more than 5 times of strength and toughness, grind long lasting.
- ◆ As the size of TORAYceram symmetry, easy grinding perfect spherical. Especially be applicable for high quality ultra-fine powder necessary.
- ◆ Even in the harsh grinding conditions. TORYceram will not appear fragmentation, wear and tear. It is possible to prevent the failure of the dust-scraper device due to the passage of the zirconia through the screen.

## Physical Charaters

	ZCP	ZHP
Color	White	Gray
Density(g/cm <sup>3</sup> )	>6.00 the above	>6.06 the above
Microhardness(Hv)	1,150~1,200	1,200~1,250
Young's Modules(Gpa)	210~220	210~220
Moduluds of Rapture	>1,000 the above	>1,500 the above
Average Grain(μm)	0.3~0.4	0.3~0.4

From  $ZrO_2$  (94.75%) and  $Y_2O_3$  (4.90%) combined.

The highest density of all ceramics materials (over 6.0) achieves high efficiency of pulverization and dispersion.

Provide **0.03~10mm** different size of the zirconia balls.



Standard size(mm)	
0.03	
0.05	±0.02
0.1	+0.03/-0.02
0.2	±0.05
0.3	+0.1/0.05
0.4	±0.1
0.5	±0.1
0.65	±0.15
0.8	±0.1
1.0	±0.2
1.25	±0.2
1.5	±0.2
1.75	±0.2
2.0	±0.2
2.35	±0.25
2.5	±0.25
3.0	±0.3
5.0	±0.5
10.0	±1.0



Outlook full , white, no fault,  
no break, size balance.



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