

## Zirconia Beads

**T**he Zirconia-beads is the ideal grinding medium produced by introducing advanced equipments and technics, widely used in the field of painting, printing ink, paper printing, packing, dye and medicine, etc.

- ◆ High efficiency of grinding: As the density of Zirconia beads is high, grinding kinetic energy is larger at same speed; efficiency of grinding is 2-3 times higher than that of general porcelain beads, getting better effect.
- ◆ Impact resistance, low consumption: As the content of  $ZrO_2$  in TZP Zirconia beads is high, it has the advantages of high density, high toughness, low consumption, no fragmentation and no peeling, etc., as well as little pollution to grinded object; the consumption is 4-10 times lower than that of general porcelain beads.
- ◆ Good stability: excellent stability, resistant to acid and alkali
- ◆ Good fluidity: good roundness, smooth surface, no air hole, reflecting polish, easy to clean; good fluidity between beads; little abrasion to equipments;
- ◆ Low cost: The abrasion of Zirconia beads is the lowest in all grinding medium at present. Compared with oversea products, our Zirconia beads is lower in abrasion, favorable price, it is honored as the best bead in the world at present. To use this product, it will greatly reduce synthesis cost for users, such as medium consumption, electrical consumption, labor force and equipments; realize dual output and improve quality in the condition of not adding any equipment. The earlier you use it, the earlier you will get benefit.

Properties	ZR60	ZR80	ZR95
ZrO <sub>2</sub> content	50%--60%	80%	94.5%
Density	≥ 4.0g/cm <sup>3</sup>	≥ 5.3g/cm <sup>3</sup>	≥ 6.0g/cm <sup>3</sup>
Bulk	2.3g/cm <sup>3</sup>	3.3g/cm <sup>3</sup>	3.7g/cm <sup>3</sup>
Crushing strength	> 1.5KN ( φ 2mm )	> 1.8KN ( φ 2mm )	> 2KN ( φ 2mm )
Mohs' hardness	8	9	9
Self consumption	≤ 0.01g/Kg.h	≤ 0.01g/Kg.h	≤ 0.01g/Kg.h
Specification	φ 0.5- φ 7.0mm	φ 0.5- φ 7.0mm	φ 0.2- φ 3.5mm

 **NOTE:**

- ◆ To select Zirconia beads in types, sizes and quantity in accordance with adhesion, rigidity and dispersal and grinding requirement of the grinded materials.
- ◆ To clean Zirconia beads and mill's inside before the grinding processes.
- ◆ To input the grinded materials firstly and a certain amount of Zirconia beads later. To add continuously Zirconia beads till 70%85% of the mill is full.
- ◆ To forbid to keep Zirconia beads running with little grinded material for a long time, The mill is easily broken when the Zirconia beads inside at high speed operation.
- ◆ To add fresh Zirconia beads to ensure the quality efficiency of grinded materials.
- ◆ **Ordering information:** BGD 1340—ZR 60 Beads (25kg)  
BGD 1341—ZR 80 Beads (25kg)  
BGD 1342—ZR 95 Beads (25kg)

