

Sepulchre Minerals

TZP-ZZ Beads

Description: TZP-ZZ Beads are fully yttrium stabilized zirconia beads, produced by the burning and /or CIP methods depending on the bead size. The color of the beads is white / pearlish.

Application: Milling of paints, inks, dyestuffs, TiO_2 , BaTiO_4 , super fine ZrSiO_4 , iron oxide and other pigments, kaolin, ground calcium carbonate, magnetic materials etc. It is especially suitable for milling of high viscosity pulps.

Specification:

Composition, (%)	
- Y_2O_3	5
- ZrO_2	95
Theoretical specific gravity	6.09
Real specific gravity	5.9
Bulk density (depending on \varnothing)	3.7-3.9
Hardness ¹⁾ , (HRC)	87-90
Fracture toughness ²⁾ , ($\text{MPa} \cdot \text{m}^{1/2}$)	10-12
Bending strength ²⁾ , (Mpa)	1000
Crushing strength (\varnothing 6.35 mm), (KN)	> 15
Color	white or greenish
Max speed of disc, (m/sec)	20
Sizes available \varnothing , (in increments of 0.2 mm)	
- burning method,	0.4 – 4
- CIP-method	5, 6.5, 10, 12, 15, 20

- 1) The hardness (HRC) of 87-90 is equal to the hardness of 8-9 in Moh's scale.
- 2) The distance between the points of support on the ceramic chip (3x4x40 mm) is 15 mm. The speed of the pressuring force is 0.1 mm/min.

Packaging: 20 kg net in plastic drums.