



PANGEA INTERNATIONAL

CERAMIC MICRO GRINDING MEDIA

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ZIRCONIA-BASED BEADS

Y-TZP



Composition (wt%)	ZrO ₂ +HfO ₂	95.0±0.5
	Y ₂ O ₃	5.2±0.2
	Remainder	0.2±0.05%
Specific Density		≥6.0 g/cm ³
Bulk Density		≥3.8 g/cm ³
Hardness		≥1250Hv
Mohs' hardness		9
Breaking Load		≥1500 N
Roudness		≥95%
Opean Porosity		0%
Color		White
Surface finish		Glossy
Standard Sizes		Φ0.1 - 2.5 mm

Properties:

- Made of high-grade Y-TZP(Yttria Tetragonal Zirconia Polycrystal) raw material in the nanometre range.
- High density, highly spherical and higher internal strength product that is the ultimate in high performance ultra-fine dispersion and grinding media.
- Its density (>6.0 g/cm³) makes it ideal for high viscosity and high hardness mill bases.
- Shiny, pearl like, nearly defect-free surface is extremely smooth with very low friction coefficient,which contributes to extremely low mill and media wear.
- It does not oxidize("rust") in the presence of aqueous dispersions,which offers the advantage of the density of metallic media without the oxidation.

Applications: Electro-ceramics, Magnetic materials, Minerals, Calcium Carbonate, Titanium Oxide, Medicines, Food, Cosmetics,Inks, Coatings, Paint, Pigments, Dyes etc...

Standard Size Range: (special sizes are available upon request)

Size Range (mm)
0.1
0.2
0.3
0.4-0.6

Size Range (mm)
0.6-0.8
0.8-1.0
1.0-1.2
1.2-1.4

Size Range (mm)
1.4-1.7
1.5-2.0
2.0-2.5

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