

### ✂ MICROSHOT YZ ARE THE FINE AND HIGH DENSITY ZIRCONIA CERAMIC BEADS FOR HIGH ENERGY SHOT-PEENING

Microshot YZ combines very fine and narrow size distributions with the highest density, hardness and toughness of Zirconia ceramic material, for high precision and high-energy peening performance.

- Maximum level of compressive stress near the surface
- Ability to treat complex and precise shapes
- Smooth surface finish to minimize crack generation
- No contamination to treated parts, thanks to chemical inertness and very low level of particle embedment

#### CHEMICAL ANALYSIS

Typical values	Y2O3 stabilized Zirconia	Other
wt%	99,5	< 0.5

#### DESIGNATION AND AVAILABLE SIZES

Name	Size range (µm)	Name	Size range (µm)
<b>YZ300</b>	250 – 350	<b>YZ50</b>	45 – 75
<b>YZ200</b>	200 – 250	<b>YZ50-L</b>	20 – 80
<b>YZ150</b>	150 – 200	<b>YZ30</b>	25 – 45
<b>YZ100</b>	80 – 125	<b>YZ20</b>	15 – 35
		<b>YZ20-L</b>	10 – 45

#### PHYSICAL PROPERTIES

	Typical values	Units
Specific gravity	6.0	g/cm <sup>3</sup>
Bulk density	3.2 – 3.7 (*)	kg/l
Vickers hardness	1250	HV1

(\*) Depends upon the size of the beads

#### PACKAGING

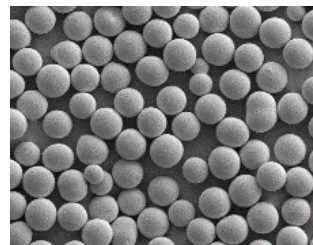
- 1kg, 5kg, 10kg, 20kg plastic containers

#### MAIN APPLICATIONS

- Ultrafine shot peening to improve fatigue strength, corrosion, pitting wear, micro-fretting
- Peening and Forming of high hardness metals

#### MAIN USERS

- Automotive
- Aeronautics
- Energy
- Biomedical



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