

### ✂ ZIRSHOT® CERAMIC BEADS IS THE INDUSTRIAL REFERENCE FOR CERAMIC SHOT-PEENING

Zirshot® combines high hardness and toughness of ceramic materials with optimal spherical bead shape and tight size distribution, to provide superior peening performance

- High level of compressive stress near the surface
- 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	ZrO <sub>2</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Other
wt%	60 – 70	28 – 33	< 10	< 1

#### 📏 DESIGNATION AND AVAILABLE SIZES

Name	Size range (µm)	Name	Size range (µm)
<b>Z850</b>	850 – 1180	<b>Z210</b>	210 – 300
<b>Z600</b>	600 – 850	<b>Z150</b>	150 – 210
<b>Z425</b>	425 – 600	<b>Z100</b>	100 – 150
<b>Z300</b>	300 – 425		

#### 🔍 PHYSICAL PROPERTIES

	Typical values	Units
Specific gravity	3.85	g/cm <sup>3</sup>
Bulk density	2.3	kg/l
Vickers hardness	700	HV1

#### 📄 CONFORMITY TO INDUSTRY STANDARDS

- NF L 06-831
- AMS 2431 and 2431/7
- SAE J 1830

#### 📦 PACKAGING

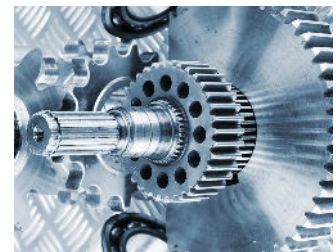
- 25 kg plastic jerrycan – 50kg and above palletized

#### ⚙️ MAIN APPLICATIONS

- Shot peening to improve fatigue strength, corrosion, pitting wear, micro-fretting
- Peen-forming
- Peen-straightening

#### MAIN USERS

- Automotive
- Aeronautics
- Energy
- Biomedical



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