

# Zirshot®

## TECHNICAL DATA SHEET

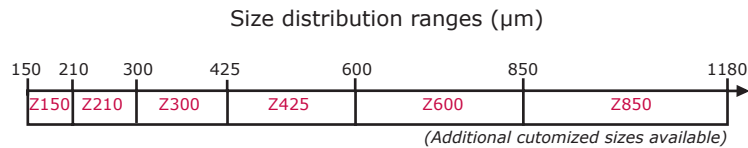
- Ceramic beads specifically suited to high performance applications.
- High recyclability, efficient whether used in wheel-blast or air-blast (dry or wet) systems.

### TYPICAL CHEMICAL ANALYSIS

ZrO <sub>2</sub>	60 to 70 %
SiO <sub>2</sub>	28 to 33 %
Al <sub>2</sub> O <sub>3</sub>	< 10 %

Chemical analysis carried out by X-Ray fluorescence on melting sample

### DESIGNATION AND AVAILABLE SIZES



### CRYSTAL STRUCTURE

Zirconia	68 %
Vitreous phase	32 %

Typical values

### PHYSICAL PROPERTIES

Specific gravity	3.85 g/cm <sup>3</sup>
Bulk density	2.30 kg/l
Vickers hardness (Equivalent HRC 50 at 65)*	700 HV1

\* Statistical measurement

- White color, almost spherical and smooth surface
- High toughness, but not very aggressive with equipment and tools
- Chemically inert, non contaminating for treated parts
- Low dust production

### INDUSTRY STANDARDS

- NF L 06-831
- SAE J 1830
- AMS 2431 et 2431/7
- MIL-S-13165C (cancelled)

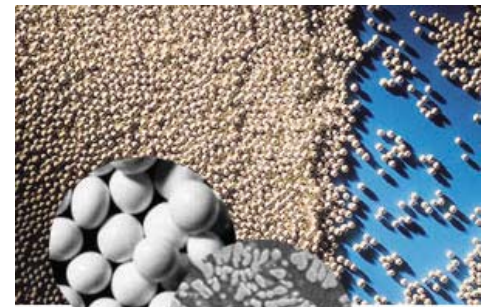
Product approved by main aeronautics companies (please consult us).

**SPECIFICATION** \_\_\_\_\_ DS SP BD 11

**SAFETY DATA SHEET** \_\_\_\_\_ DS MS BD 11

### PACKAGING

25 kg jerrycan, 50 kg and above palletized



Zirshot Z850

Structure:  
Zirshot x 5000  
1 µm —

### MAIN APPLICATIONS

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

### MAIN USERS

- Aeronautics
- Automotive
- Nuclear, chemical equipments
- Medical prosthesis

*Saint-Gobain ZirPro is the expert in zirconia-based materials for industrial applications. From our global network of manufacturing, commercial and research facilities, we serve leading customers through long-term and trust-based relationships.*

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