

# Zirblast® Ceramic Beads

- Specifically suited to many impact surface treatments.
- 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

## CRYSTAL STRUCTURE

Zirconia	68 %
Vitreous phase	32 %

Typical values

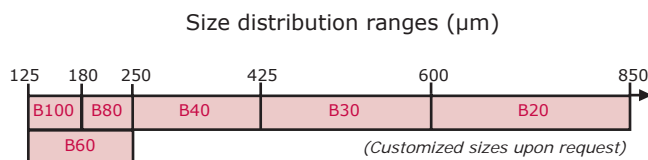
## PHYSICAL PROPERTIES

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

## DESIGNATION AND AVAILABLE SIZES



**INDUSTRY STANDARD** \_\_\_\_\_ NF L 06-824

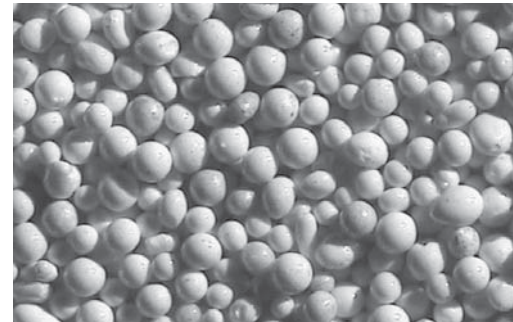
**SPECIFICATION** \_\_\_\_\_ DS SP BE 01

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

## PACKAGING

25 kg plastic jerrycan

500 kg or 1 ton big-bag



Zirblast B60 being used for steel descaling

## MAIN APPLICATIONS

- Tool cleaning
- Stainless steel and light alloy finishing
- Deburring
- Difficult descaling
- Paint or coating stripping
- Surface or galvanization etching

**For higher performance applications, Zirshot is recommended (for example shot peening).**

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# Zirshot Ceramic Beads

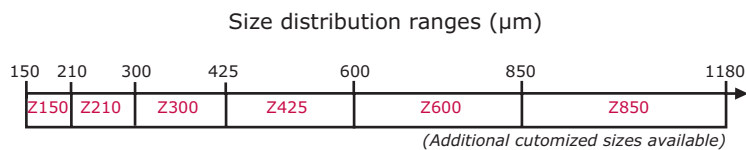
- Specifically suited to high performance applications.
- High recyclability, efficient whether used in wheel-blast or air-blast (dry or wet) systems.

## 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)

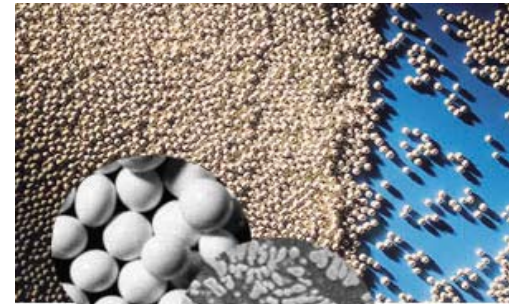
Product approved by main aeronautics companies (please consult us).

**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

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