

Ceramic Shots for Shot Peening Zseries

Technical Data Sheet

11/2024

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Ceramic Shots for Shot Peening Zseries are high-quality ceramic shot peening media, widely used in shot peening and surface treatment of mechanical parts in aerospace, automobile, industrial manufacturing, etc., which can effectively enhance the fatigue strength of metal materials and achieve precise surface modification.

- High rebound rate, can evenly cover complex geometric shapes
- High hardness and toughness, with higher energy impact transmission effect
- Provide smooth and uniform surface finish to avoid contamination
- Extremely long service life, ensuring overall operation efficiency and cost
- Certified with ISO9001:2015 and ISO14001 standards

CHEMICAL ANALYSIS

Typical values	ZrO ₂	Al ₂ O ₃	SiO ₂
%	60-70	<10	28-33

DESIGNATION AND AVAILABLE SIZES

Name	μm	Name	μm	Name	μm
Z100	100-150	Z150	150-210	Z210	250-300
Z300	300-425	Z425	425-600	Z600	600-850
Z850	850-1180				

PHYSICAL PROPERTIES

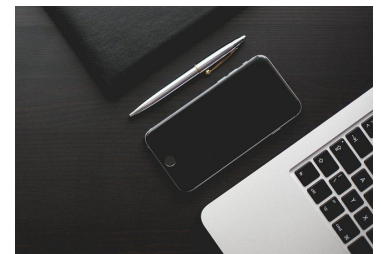
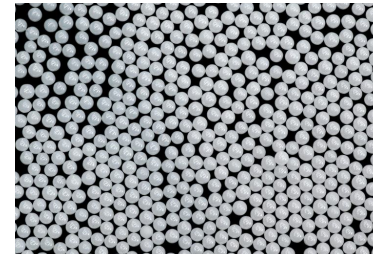
	Numerical Value
Mohs Hardness	7
Grain Shape	Sphere
Particle Color	White
Density	3.8g/cm ³
Bulk Density	2.3g/cm ³
Vickers Hardness	700HV

PACKAGING

- 25 kg plastic jerrycan, 1-ton bulk bag
- Big-bags available upon request

MAIN APPLICATIONS

- Enhance fatigue performance and dimensional accuracy of aircraft structural parts
- Improve surface finish of household appliances and buildings
- Improve surface strength of engine parts, gears and suspension systems
- Cleaning of welded steel parts, castings and forgings



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