



# Zirconium Silicate Grinding Media

High Density – Solid Spherical Shape  
Shiny Surface – Uniform Size

## Benefits

Grinding beads are produced from specially formulated zirconium silicate, using a carefully controlled dripping technique followed by high temperature sintering and surface conditioning.

The unique combination of the bead's composition, manufacturing process, and surface conditioning yields greater wear resistance, resulting in low contamination and improved cost effectiveness.

### • High Density

The bead's high density (typically 3.8 gr./cm<sup>3</sup>) insures superior milling efficiency, particularly in medium and high viscosity formulations, improving throughput rates and allowing fewer passes.

### • Conditioned, Shiny Surface

Beads are preconditioned. The smooth shiny surface of the bead reduces mill and media wear when grinding.

### • Fully Solid, Spherical Shape

The bead has a fully solid, spherical shape, and does not contain air pockets or surface satellites. Beads do not break during the milling process. The user benefits from reduced cleaning time and the prevention of clogging. The bead's high sphericity also contributes to decreased mill and media wear.

### • Uniform Size

The unique dripping process produces a very narrow range of sizes (0.2mm), eliminating undersized beads that require separation. This precise sizing guarantees good flowability of the slurry and increases media life.

## Quality is Assured

• Dedication to quality has been enhanced by the introduction of ISO-9002 Quality Standards.

• Materials and manufacturing are continuously checked according to the company's own clearly defined internal procedures.

• Our manufacturing implements statistic process control for the main production parameters.

• Precise guidelines guarantee customers the benefits of batch traceability and proper final inspection.



## Applications:

**Paint, Inks, Minerals, Pigments, Chemicals, ETC**

### • Chemical Composition %:

ZrO <sub>2</sub> .....	67,5%
SiO <sub>2</sub> .....	25,0%
Al <sub>2</sub> O <sub>3</sub> .....	3,5%
CaO .....	2,0%
MgO .....	1,9%
Sonstige .....	>0,1%

### • Physical Properties (typical):

Specific Weight (kg/l) .....	3,8
Youngs Module (GPa) .....	100
Harness (Mohs) .....	7
Microhardness (HV) .....	700

**For additional information, or to place an order, please contact us.**



DIVISION OF  
**CHICAGO BOILER  
COMPANY** SINCE 1891

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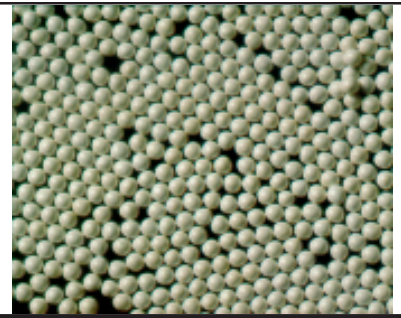
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# Zirconium Silicate Grinding Media Price List



Part Number	Specific Gravity	Mesh	mm	List Price per Pound (55 Lb. Pkgs.)
CMZS-0406-SN	3.8	40-30	0.4-0.6	\$ 6.80
CMZS-0608-SN	3.8	30-20	0.6-0.8	\$ 6.80
CMZS-0810-SN	3.8	20-18	0.8-1.0	\$ 6.80
CMZS-1012-SN	3.8	18-16	1.0-1.2	\$ 6.80
CMZS-1416-SN	3.8	14-12	1.4-1.6	\$ 6.80
CMZS-1820-SN	3.8	10	1.8-2.0	\$ 6.80

1. Freight: F.O.B. Our Plant - Gurnee, IL
2. Sizes can be combined for quantity discount
3. Blanket orders available / Consult CB Mills
4. Standard Packaging – 55 lb. pkgs.
5. Payment Terms: NET 30 with approved credit
6. Minimum Order - \$100.00
7. Prices subject to change without notice.

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