

GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: Bubble Zirconia (Zirconium Oxide)

Description: A fused, calcia stabilized Zirconia which is excellent for refractory applications due to its thermal shock resistance and chemical stability.

Typical Chemical Analysis:

Zirconium Oxide (ZrO ₂)	94.85%
<u>and</u> Hafnium Oxide (HfO ₂)	
Calcium Oxide (CaO)	3.80%
Aluminum Oxide (Al ₂ O ₃)	0.80%
Silicon Dioxide (SiO ₂)	0.40%
Titanium Dioxide (TiO ₂)	0.10%
Iron Oxide (Fe ₂ O ₃)	0.05%

Physical Characteristics:

Crystal Form:	Cubic and Monoclinic mixture
True Density:	5.60 – 5.70 g/cm ³
Hardness:	Knoop 1160, Mohs 6.5
Melting Point:	2550°C
Bulk (Loose Pack) Density:	1.27 – 3.0 g/cm ³
Color:	Golden (yellow)

ANSI Test Methods:

Chemistry:	B74.14
Bulk Density:	B74.4
Sizing:	Various sizes available

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
55 lb. paper bags
300 lb. fiber drums
2200 lb supersacks
Plastic pails, etc. for a surcharge (SC only)