

GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: Dense Zirconia (Zirconium Oxide)

Description: A fused, high density, stabilized Zirconia which is excellent for refractory applications, special kiln furniture, and high temperature insulation due to its thermal shock resistance and chemical stability.

Typical Chemical Analysis:

Zirconium Oxide (ZrO ₂) and Hafnium Oxide (HfO ₂)	94.85%
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:	Customer Specific / Varies With Size
Color:	Yellow

Test Methods:

Chemistry:	ANSI B74.14
Bulk Density:	ANSI B74.4
Sizing:	ANSI, FEPA F

Packaging & Shipping:

Warehousing in Bluffton, SC and Niagara Falls, NY
400 lb. fiber drums
Plastic pails, etc. for a surcharge (SC only)