GNPGraystar
Specialty Materials
AN ISO 9001 CERTIFIED COMPANY

TECHNICAL DATA SHEET
Dense Calcia-Stabilized Zirconia

Typical Chemistry

Zirconium Oxide (ZrO_2) + (Hafnium Oxide (HfO_2)	94.85 %
Calcium Oxide (CaO)	3.80 %
Aluminum Oxide (Al_2O_3)	0.80 %
Silicon Dioxide (SiO_2)	1.40 %
Titanium Dioxide (TiO_2)	0.10 %
Iron Oxide (Fe_2O_3)	0.05 %

Physical Characteristics

Crystal Form:	Cubic & Monoclinic Mix
True Density:	5.60 - 5.70 g/cm^3
Hardness:	Knoop: 1160 Mohs: 6.5
Melting Point:	2550°C
Bulk Density;	Varies with Size
Color:	Yellow

Test Methods

Chemistry:	ANSI B74.14
Bulk Density:	ANSI B74.4
Macrogrit Sizing	ANSI B74.12-2003 FEPA F Standard 42-1:2006 Custom Sizes

Description:

GNPGraystar's Dense Calcia-Stabilized Zirconia is fused in a state-of-the-art electric arc tilt furnace that insures a high-degree of product uniformity.

Applications:

GNPGraystar's Fused Monoclinic Zirconia Powder is excellent in metallurgical refractories such as zirconia nozzles and slide gates. It is also used in other refractories, ceramic pigments, auto brake additives, setting sands, and more.

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