



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

Fused Calcia-Stabilized Zirconia

Typical Chemistry

	GNPPCK-a	CNPPCK-b	PCD
% ZrO ₂	94	89.5	94
% CaO	3.5-4.2	2.5-4.0	3.0-4.2
% Al ₂ O ₃	0.4	0.4	0.3
% SiO ₂ max.	0.6	0.4	0.4
% Fe ₂ O ₃ max	0.1	0.15	0.1
% TiO ₂ max.	0.2	0.2	0.15
Color	Yellow	Yellow	Yellow
Stabilization	95% min.	70-90 %	75-85 %
Density (g/cm ³)	5.6 min.	5.6 min.	5.7 min.
Sizing	Hollow Beads or Customized	Custom	Custom

	PCD-C	FCD
% ZrO ₂	95	91
% CaO	3.0-4.2	7.0-7.8
% Al ₂ O ₃	0.1	0.2
% SiO ₂ max.	0.2	0.4
% Fe ₂ O ₃ max	0.1	0.1
% TiO ₂ max.	0.1	0.2
Color	Yellow	Yellow
Stabilization	75-85	100
Density (g/cm ³)	5.8 min.	5.9 min.
Sizing	Custom	Custom

Description:

GNP Graystar's Fused Calcia-Stabilized Zirconia is produced by electro-fusion of high purity zirconia and calcia.

Applications:

GNP Graystar's Fused Calcia-Stabilized Zirconia is used in various ceramic applications such as refractory setters for the electro-ceramic industry, zirconia furnace furniture, structural ceramics, sizing nozzles, zirconia hollow bead products, and more.

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