



GNP Graystar

Specialty Materials

AN ISO 9001 CERTIFIED COMPANY



TECHNICAL DATA SHEET

Fused Ytria-Stabilized Zirconia

Typical Chemistry & Properties

	GNP5YD-b	GNP7YD-a	GNP7YD-b	GNP7YD-aQ
% ZrO ₂	93	90	90	90
% Y ₂ O ₃	4.8-5.6	7-8	7-8	7-8
% Al ₂ O ₃ max.	0.3	0.1	0.3	0.1
% SiO ₂ max.	0.4	0.4	0.4	0.4
% Fe ₂ O ₃ max	0.1	0.1	0.1	0.1
% TiO ₂ max.	0.2	0.1	0.2	0.1
% CaO	0.2	0.2	0.2	0.1
Stabilization	50% min.	75-85%	75-85 %	98% min.
Density (g/cm ³)	5.8 min.	6.1 min.	6.0 min.	6.1 min.
Color	Yellow	Yellow	Yellow	Yellow

	GNP7YD-cQ	GNP9YD-b	GNP13YD-a	GNP132YD-b
% ZrO ₂	90	88	84	84
% Y ₂ O ₃	7-8	8.8-9.8	13-14	13-14
% Al ₂ O ₃ max.	0.1	0.2	0.1	0.2
% SiO ₂ max.	0.4	0.4	0.4	0.4
% Fe ₂ O ₃ max	0.1	0.1	0.05	0.1
% TiO ₂ max.	0.1	0.2	0.05	0.2
% CaO	0.5	0.2	0.1	0.2
Stabilization	95% min.	85% min.	95% min.	95% min.
Density (g/cm ³)	6.0 min.	6.1 min.	6.2 min.	6.2 min.
Color	Yellow	Yellow	Yellow	Yellow

*Particle Size can be customized for all the above products.

Description:

GNP Graystar's Fused Ytria-Stabilized Zirconia is produced from special fusion of high purity zirconia with various amounts of yttrium oxide.

Applications:

GNP Graystar's Fused Ytria-Stabilized Zirconia is used for refractories, thermal spray coatings, plasma spraying, oxygen permeable membranes, ceramic rings, and many other applications.

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