



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

Chemical Grade Monoclinic Zirconia

Typical Chemistry & Properties

	GNPR1	GNPR2	GNPR3	GNPR4
% ZrO ₂ + HfO ₂	99.9	99.5	99.5	99.5
% SiO ₂ max.	0.015	0.02	0.02	0.02
% Fe ₃ O ₃ max.	0.003	0.005	0.005	0.005
% TiO ₂ max.	0.003	0.005	0.005	0.005
% Na ₂ O max.	0.003	0.005	0.003	0.005
Color	White	White	White	White
Particle Size	3-6 μm	3-6 μm	6-8 μm	---
SSA	< 10 m ² /g	< 10 m ² /g	< 10 m ² /g	< 10 m ² /g
Size	---	---	---	Unground

	GNPR5	GNPR6	GNPR7
% ZrO ₂ + HfO ₂	99.5	99.9	99.5
% SiO ₂ max.	0.02	0.02	0.02
% Fe ₃ O ₃ max.	0.005	0.002	0.002
% TiO ₂ max.	0.005	0.003	0.002
% Na ₂ O max.	0.005	0.005	---
Color	White	White	White
Particle Size	---	1.0-1.2 μm	0.5 μm
SSA	< 10 m ² /g	< 10 m ² /g	< 10 m ² /g
Size	60-150 mesh	---	---

*SSA & Particle Size can be customized.

Description:

GNP Graystar's Chemical Grade Monoclinic Zirconia is non-toxic and tasteless. It has good stability towards acid and alkaline solutions (excluding hot & thick H₂SO₄, HF, and H₃PO₄).

Applications:

GNP Graystar's Chemical Grade Monoclinic Zirconia is used in precision ceramics, electrical components, glass additives, ceramic colored glazes, refractory materials, polishing applications, and synthetic jewelry.

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