



GNP Graystar

Specialty Materials

TECHNICAL DATA SHEET

Zirconia Grinding Media

Typical Chemistry

	Ce-Stab	Yt-Stab
Zirconium Oxide (ZrO ₂)	---	94.7 %
Magnesium Oxide (MgO)	---	---
ZrO ₂ + Cerium Oxide (CeO ₂)	95 %	---
Yttrium Oxide (Y ₂ O ₃)	---	5.2 %

Typical Physical Characteristics

	Ce-Stab	Yt-Stab
Density (g/cm ³)	5.95-6.00	6.00-6.08
Moh Hardness	9	9
Packed Density (g/cm ³)	3.6-3.8	3.6-3.8
Crushing Load (Φ1.5mm)	≥ 50 kgf	≥ 75 kgf
Water Absorption	0 %	0 %
Sphere Roundness	95 %	95 %
Wear Rate (normal)	< 0.3 %	< 0.2 %
Wear Rate (extreme)	< 2 %	< 1 %
Color	Gold	Milk White

Available Sizes

Ceria Stabilized Spheres:

Φ0.4, Φ0.5, Φ0.8, Φ1, Φ1.5, Φ2, Φ2.5, Φ3, Φ4, Φ5, Φ7, Φ8, Φ10, Φ12, Φ15, Φ20, Φ25, Φ30 mm

Yttria Stabilized Spheres:

Φ0.4, Φ0.5, Φ0.8, Φ1, Φ1.5, Φ2, Φ2.5, Φ3, Φ4, Φ5, Φ7, Φ8, Φ10, Φ12, Φ15, Φ20, Φ25, Φ30 mm

Yttria Stabilized Cylinders:

3x3, 5x5, 7x7, 10x10, 12.7x12.7, 15x15, 20x20 mm

Description:

GNP Graystar's Zirconia Grinding Media is the most durable and efficient media for ball milling and attrition milling of ceramic materials. Zirconia grinding media provides a virtually contamination-free ball milling solution for a variety of industries.

Applications:

GNP Graystar's Zirconia Grinding Media is used for audio/video recording tapes, electronic-grade ceramics, ferroelectric, piezoelectric, dielectric, capacitors, sensors, inks, dyes, paint, and other pigments.

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