

CY3Z-P

TECHNICAL DATA SHEET

- 3% molar Y₂O₃ stabilized zirconia with high chemical purity.
- Granules for cold isostatic pressing (CIP) of YTZ ceramic.
- YTZ ceramics with outstanding mechanical properties.

TYPICAL CHEMICAL ANALYSIS (ppm)

ZrO ₂ +HfO ₂ *	Y ₂ O ₃	Al ₂ O ₃	SiO ₂	Na ₂ O	TiO ₂	Fe ₂ O ₃	CaO	LOI
94.3%	5.4%	0.25%	≤250	≤250	≤50	≤50	≤250	≤1%

* by difference

PRODUCT RANGE: PHYSICAL PROPERTIES

	CY3Z-P
SSA / m ² .g ⁻¹	9
D50 (μm)*	60
Bulk density (g.cm ⁻³)	1.2
Flowability (g/s)	>0.6

*Analytical method: laser diffraction

APPLICATION PROPERTIES

- Ceramic sintering

	CY3Z-P
Ceramic density (g.cm ⁻³)	≥ 6.05
Sintering temperature (°C)	1400

Refer to our recommendations for thermal processing

- Mechanical properties of final ceramics

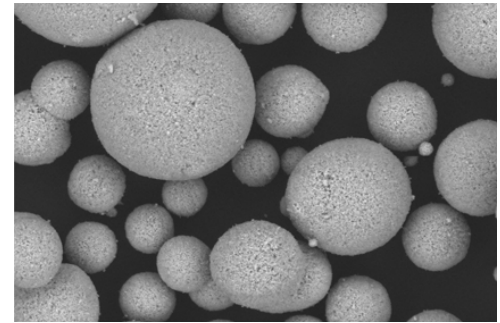
Hardness (HV05)*	Flexural Strength (MPa)**	Fracture Toughness K _{1C} (MPa.m ^{1/2})*
1250	1100	6

* Vickers indentation
** 3 points bending

SAFETY DATA SHEET AVAILABLE

PACKAGING

20 kg plastic drums.



MAIN APPLICATIONS

- Structural ceramics

CERAMIC PROPERTIES

- Easy processing
- High strength
- Wear & scratch resistant
- Smooth finish

Saint-Gobain ZirPro is the expert in zirconia-based materials for industrial applications. From our global network of manufacturing, commercial and research facilities, we serve leading customers through long-term and trust-based relationships.

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