

CS Zirconias

TECHNICAL DATA SHEET

- Thermal zirconia powders are obtained through the purification of CC grades
- CS powders exhibit higher reactivity than fused zirconia
- Recommended for applications requiring reactive premium grades of thermal zirconia with high level of purity

TYPICAL CHEMICAL ANALYSIS (wt%)

	ZrO ₂ +HfO ₂ *	SiO ₂	Na ₂ O	TiO ₂	Fe ₂ O ₃	Al ₂ O ₃	CaO	H ₂ O	L.O.I.
								(105°C)	(105 - 1000°C)
CS10	≥ 99.0	0.08	0.02	0.06	0.02	0.08	0.02	0.10	0.20
CS05	≥ 99.0	0.08	0.02	0.06	0.02	0.08	0.02	0.10	0.20
CS02	≥ 99.0	0.08	0.02	0.06	0.02	0.08	0.02	0.10	0.20
CS01	≥ 99.0	0.08	0.02	0.06	0.02	0.08	0.02	0.10	0.20

Analytical methods:
 - ICP measurement
 - ZrO₂+HfO₂ by difference

PARTICLE SIZE & SPECIFIC SURFACE AREA

	CS10	CS05	CS02	CS01
D90 (µm)	8.0	2.9	1.4	1.2
D50 (µm)	3.5	1.4	0.8	0.6
D10 (µm)	1.0	0.6	0.4	0.3
SSA (m ² /g)	1.0 - 2.5	2.0 - 3.5	4.0 - 5.5	5.7 - 7.0

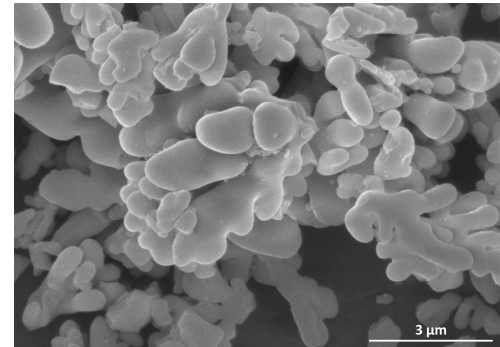
Analytical methods:
 - Specific surface area by B.E.T.
 - Particle size distribution by Sedigraph 5100

CRYSTAL STRUCTURE ————— 100% Monoclinic

SAFETY DATA SHEET AVAILABLE

PACKAGING

25 kg moisture proof paper bags.
 500 kg, 1 Mt big-bags.



MAIN APPLICATIONS

- Piezoceramics (PZT)
- Multilayer ceramic capacitors (MLCC)
- Structural ceramics (MgPSZ)
- Specialty glasses

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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