CC Zirconias

TECHNICAL DATA SHEET

2019/04

- **Thermal zirconia made by fusion of zircon sand combined with chemical treatments.**
- **CC powders offer higher reactivity than fused zirconia.**
- **Recommended for applications requiring pure thermal zirconia powders.**

TYPICAL CHEMICAL ANALYSIS (wt%)

	ZrO_2+HfO_2	SiO_2	Na_2O	TiO_2	Fe_2O_3	Al_2O_3	CaO	H_2O (105°C)	L.O.I. (105 - 1000°C)
CC10	98.8	0.50	0.20	0.10	0.04	0.10	0.03	0.10	0.20
CC05	98.8	0.50	0.20	0.10	0.04	0.10	0.03	0.10	0.20
CC02	98.8	0.50	0.20	0.10	0.04	0.10	0.03	0.20	0.20
CC01	98.8	0.50	0.20	0.10	0.04	0.10	0.03	0.20	0.20

Analytical methods:
- ICP measurement
- ZrO_2+HfO_2 by difference

PARTICLE SIZE & SPECIFIC SURFACE AREA

	CC10	CC05	CC02	CC01
D90 (µm)	8.5	3.4	1.8	1.4
D50 (µm)	3.5	1.5	0.9	0.7
D10 (µm)	1.0	0.7	0.4	0.3
SSA (m²/g)	1.3 - 4.3	2.0 - 5.0	3.0 - 6.0	4.5 - 7.0

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

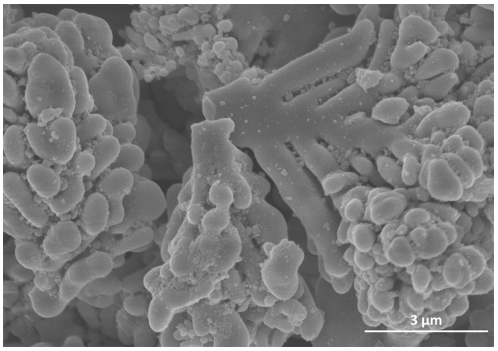
CRYSTAL STRUCTURE

100% Monoclinic

SAFETY DATA SHEET AVAILABLE

PACKAGING

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



MAIN APPLICATIONS

- Thermal barriers
- Ceramic pigments and colors
- Refractory parts
- Polishing agents
- 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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