

✂ CC POWDERS SHOW HIGH REACTIVITY THANKS TO A UNIQUE DENDRITIC MORPHOLOGY

CC grades are thermal zirconia made by fusion of zirconium silicate at high temperature combined with chemical treatments.

Thanks to ZirPro unique process, CC powders offer higher reactivity than fused zirconia.

CC powders offer a wide range of d50 and SSA:

- D50 from 3.5 μm to 0.7 μm
- Typical specific surface areas from 3.0 to 6.0 m^2/g

✂ TYPICAL PARTICLE SIZE & SPECIFIC SURFACE AREA

	Particle size ^a (μm)			Specific Surface Area ^b (m^2/g)
	D10	D50	D90	
CC10	1.0	3.5	8.5	1.3 – 4.3
CC05	0.7	1.5	3.4	2.0 – 5.0
CC02	0.4	0.9	1.8	3.0 – 6.0
CC01	0.3	0.7	1.4	4.5 – 7.0

^a : Sedigraph 5100 - ^b : B.E.T. measurement

⚙ MAIN APPLICATIONS

- Thermal barrier coatings
- Pigments for ceramic tile decoration
- Refractory parts (bricks, foundry filters, ...)
- Stone polishing
- Glass and gemstones



Pigments for ceramic tile decoration



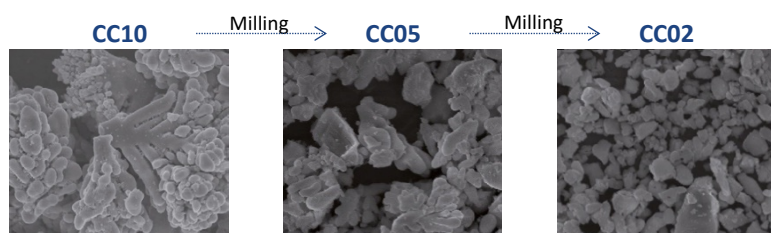
Thermal barrier coatings

🔬 TYPICAL CHEMICAL ANALYSIS

	Chemistry ^a (wt%)							L.O.I. ^c (wt%)
	SiO ₂	Na ₂ O	Al ₂ O ₃	TiO ₂	Fe ₂ O ₃	CaO	H ₂ O ^b	
CC10								0.20
CC05	0.50	0.20	0.10	0.10	0.04	0.03	0.10	
CC02								
CC01								

^a : I.C.P. - ^b : Loss weight at 105°C - ^c : Loss weight from 105°C to 1000°C

🔍 THE CC10 TYPICAL GRAIN MORPHOLOGY IS ROUNDISH AND MAINTAINED EVEN AFTER MILLING



📦 PACKAGING

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