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Product Data Sheet

CS Zirconias

Description

- monoclinic zirconium oxides
- ideally suited to the production of technical ceramics
- particle sizes adapted to different applications and processes

Main applications

- structural ceramics
- wire-guides
- electro-ceramics
- specialty glasses

Typical chemical analysis (%)

	ZrO ₂ + HfO ₂ *	SiO ₂	Na ₂ O	TiO ₂	Fe ₂ O ₃	Al ₂ O ₃	CaO	H ₂ O (105°C)	L.O.I. (105-1000°C)
CS10	≥ 99,0	0,09	0,02	0,08	0,02	0,06	0,03	0,04	0,05
CS05	≥ 99,0	0,09	0,02	0,08	0,02	0,06	0,03	0,05	0,1
CS02	≥ 99,0	0,09	0,02	0,08	0,02	0,06	0,03	0,08	0,2
CS01	≥ 99,0	0,09	0,02	0,08	0,02	0,06	0,03	0,1	0,2

* by difference

Particle size & specific surface area

	CS10	CS05	CS02	CS01
D90 (μm)	8,0	3,6	1,6	1,2
D50 (μm)	3,5	1,7	0,8	0,6
D10 (μm)	1,0	0,6	0,3	0,3
SSA (m ² /g)	1,7	3,0	5,0	6,5

Analytical method:

- specific surface area by B.E.T.
- particle size distribution by Sedigraph 5100

Crystal structure

- 100% monoclinic

Packaging

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