

CR30 40 cell 300mm Material Specification Sheet

Material Composition					
	Range in %		Range in %		Range in %
Alumina Oxide	55-65	Iron Oxide	0.5-1.5	Magnesium Oxide	0-0.5
Silicon Dioxide	25-30	Titanium Oxide	0-1.0	Sodium Oxide	0-0.5
Barium Oxide	0.5-1.5	Calcium Oxide	0-0.5	Potassium Oxide	1-1.6

Physical and Chemical Characteristics						Resulting characteristic parameters		
	Nominal	Range		Range	unit		Nominal	unit
Cell Size	2.9 mm	±10%	Porosity ¹	3-9%		Active Surface	880	m ² /m ³
Wall Thickness	0.7 mm	±10%	Thermal Expansion ²	6.1-6.8	x10 ⁻⁶ 1/K	Specific Heat ³	920	J/(kgxK)
Open Frontal Area	64%	±10%	Solid Density	2.4-2.8	g/cm3			

Dimensions					
	Nominal	Range		Nominal	Range
Height	300 mm	±3 mm	7 block stack width	1057	±2%
Width	150 mm	±3 mm	weight per volume	0.875	±12%
Length	150 mm	±3 mm	# of channels	1600	

Notes

- 1) Method Used - water absorption
- 2) technical CTE at 800°C
- 3) 100 degrees C