

## CR30 25 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	4.9 mm	±10%	Porosity <sup>1</sup>	3-9%		Active Surface	580	m <sup>2</sup> /m <sup>3</sup>
Wall Thickness	0.9 mm	±10%	Thermal Expansion <sup>2</sup>	6.1-6.8	x10 <sup>-6</sup> 1/K	Specific Heat <sup>3</sup>	920	J/(kgxK)
Open Frontal Area	68%	±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	0.770	±12%
Length	150 mm	±3 mm	# of channels	625	

### Notes

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