

CR20 32 cell 300mm Material Specification Sheet

Material Composition					
	Range in %			Range in %	
Alumina Oxide	55-65		Titanium Oxide	0-1	
Silicon Dioxide	24-28		Calcium Oxide	0.9-1.7	
Iron Oxide	0.5-1.5		Magnesium Oxide	0.7-1.3	
			Sodium Oxide	0-0.5	
			Potassium Oxide	1-1.6	
			Cer Oxide	6.5-9	

Physical and Chemical Characteristics						Resulting characteristic parameters		
	Nominal	Range		Range	unit		Nominal	unit
Cell Size	3.8	±10%	Porosity ¹	3-9%		Active Surface	724	m ² /m ³
Wall Thickness	0.8mm	±10%	Thermal Expansion ²	6.8-8.0	x10 ⁻⁶ °K ⁻¹	Specific Heat ³	880	J/kgK
Open Frontal Area	66%	±10%	Solid Density	2.4-2.8	g/cm ³			

Dimensions					
	Nominal	Range		Nominal	Range
Height	300 mm	±3 mm	7 block stack width	1057	±2%
Width	150 mm	±3 mm	weight per volume	0.864	±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