

## NT 37 cell 300mm Material Specification Sheet

Material Composition					
	Range in %			Range in %	
Alumina Oxide	45-55		Titanium Oxide	0.5-1.5	
Silicon Dioxide	37-47		Calcium Oxide	0.5-1.5	
Iron Oxide	0.5-1.5		Magnesium Oxide	0.5-1.5	
			Sodium Oxide	0-5	
			Potassium Oxide	0-5	

Physical and Chemical Characteristics						Resulting characteristic parameters		
	Nominal	Range		Range	unit		Nominal	unit
Cell Size	3.4	±10%	Porosity <sup>1</sup>	0-1%		Active Surface	847	m <sup>2</sup> /m <sup>3</sup>
Wall Thickness	0.6	±10%	Thermal Expansion <sup>2</sup>	6-7	x10 <sup>-6</sup> °K <sup>-1</sup>	Specific Heat <sup>3</sup>	910	J/kgK
Open Frontal Area	72%	±10%	Solid Density	2.6-2.8	g/cm <sup>3</sup>			

Dimensions					
	Nominal	Range		Nominal	Range
Height	300 mm	±2 mm	7 block stack width	1057	±2%
Width	150 mm	±3 mm	weight per volume	0.918 g/cm <sup>3</sup>	±12%
Length	150 mm	±3 mm	# of channels	1849	

### Notes

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