

MK20 40 cell 300mm Material Specification Sheet

Material Composition

	Range in %		Range in %		Range in %
Alumina Oxide	28-38	Titanium Oxide	0-1	Sodium Oxide	0-0.5
Silicon Dioxide	45-55	Calcium Oxide	0-1	Potassium Oxide	0.5-2
Iron Oxide	0.5-1.5	Magnesium Oxide	8-10		

Physical and Chemical Characteristics

	Nominal	Range		Range	unit
Cell Size	2.9 mm	±10%	Porosity ¹	7-12%	
Wall Thickness	0.7 mm	±10%	Thermal Expansion ²	2-3	$\times 10^{-6} \text{ } ^\circ\text{K}^{-1}$
Open Frontal Area	63%	±10%	Solid Density	1.9-2.1	g/cm^3

Resulting characteristic parameters

	Nominal	unit
Active Surface	880	m^2/m^3
Specific Heat ³	810	J/kgK

Dimensions

	Nominal	Range		Nominal	Range
Height	300 mm	±2 mm	7 block stack width	1057	±2%
Width	150 mm	±3 mm	weight per volume	0.740 g/cm^3	±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