

CERAMIC HONEYCOMB MONOLITH

Heat Storage & Exchange,
Catalyst Carrier, Gaseous
Emissions Control, Chemical
Packing

Application: RTO & RCO, Metal
Casting, Scrubber, Packing Tower

We customize all products and
materials to individual customer
needs and specifications.

150x150x300x(60x60) Cellular Honeycomb Ceramics

Physical Performance

Item	Material	Dense Cordierite	Cordierite
Density	g/cm ³	2.42	2.16
	lb/ft ³	151.1	134.9
Bulk Density	kg/m ³	786.5	700.1
	lb/ft ³	49.1	43.7
Thermal Expansion Coefficient	10 ⁻⁶ /K	3.5	3.4
	10 ⁻⁶ /°F	1.94	1.89
Specific Heat Capacity	J/kg·K	942	1016
	Btu/lb·°F	0.221	0.243
Thermal Conductivity	W/m·K	1.89	1.63
	Btu/ft·h·°F	13.1	11.3
Thermal Shock Resistance	Max K	500	600
	Max °F	900	1080
Softening Temperature	°C	1320	1400
	°F	2408	2552
Maximum Service Temperature	°C	1200	1300
	°F	2278	2372
Average Heat Capacity	kW·h/m ³ ·K	0.206	0.198
	Btu/ft ³ ·°F	10.9	10.6
Water Absorption	%	≤5	15-20
Acid Resistance	%	5.0	15.0

Specifications

- Overall Dimensions – 150 x 150 x 300mm / 5.9 x 5.9 x 11.81 in
- Number of Cells – 60 x 60 = 3600
- Cell Width – 2.0 mm / 0.079 in
- Wall Thickness – 0.45 mm / 0.018 in
- Specific Surface Area – 1310 m²/m³ / 399.3 ft²/ft³
- Void Fraction – 64%