

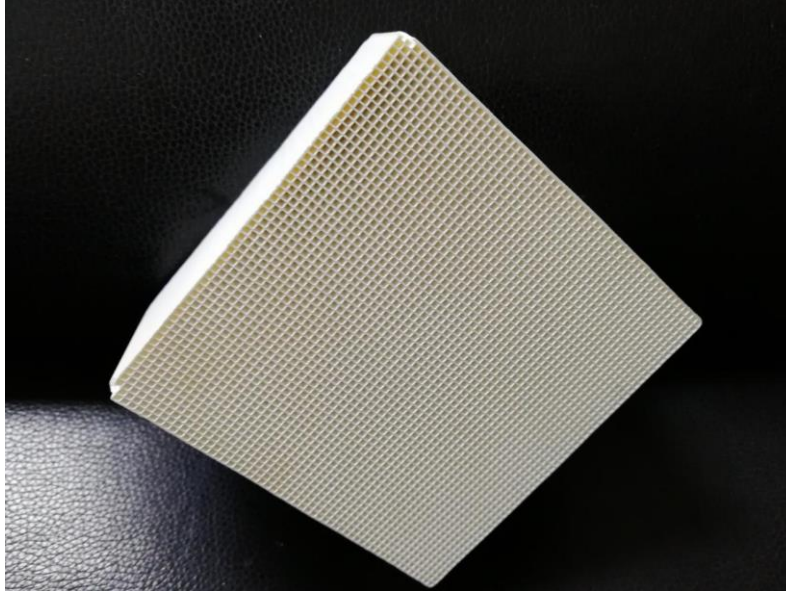


HONEYCOMBS CERAMICS B.V.

RTO Ceramic Media

DATA SHEET OF HEAT TRANSFER MEDIA

DENSE ALUMINA HONEYCOMBS



1. Production Properties

Standard Size	150x150x300mm, 150X150X150mm			
Cell Count	25x25 cells	40x40 cells	50x50 cells	60x60 cells
Cell Size	4.9x4.9 mm	3.0x3.0 mm	2.37x2.37 mm	1.98x1.98 mm
Wall Thickness	1 mm	0.7 mm	0.6 mm	0.5 mm
Min.	0.95	0.65	0.55	0.45
Max.	1.05	0.75	0.65	0.55
Average Piece Weight (150x150x300mm)	4.9 kg	5.3 kg	5.4 kg	5.3 kg
Typical Density	720 kg/m ³	780 kg/m ³	800 kg/m ³	780 kg/m ³
Free Volume	67 %	64 %	62.4 %	62.7 %
Surface Area	540 m ² /m ³	825 m ² /m ³	1050 m ² /m ³	1300 m ² /m ³

Data-Ceramic Honeycomb

Version: 01

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2. Chemical Properties(Test Standard: GB/T4734-1996)

<u>Chemical Composition</u>	Typical Data (Wt%)
Al ₂ O ₃	67.9
SiO ₂	26.8
TiO ₂	0.34
Fe ₂ O ₃	0.89
K ₂ O + Na ₂ O	2.57
CaO	0.71
MgO	0.65

3. Physical Properties (Test Standard: JCT 2135-2012)

	typical
Material Density	2.67 g/cm ³
Apparent density	2.13 g/cm ³
Porosity	20.14%
Water Absorption	9.46%
Acid Resistance Strength Wt. Loss	1%
Maximum Working Temperature	1450 °C
Coefficient of Thermal Expansion	6.2 x 10 ⁻⁶ /K
Cold Crushing Strength	12 MPa
Specific Heat Capacity	998 J/Kg.K
Heat Conductivity	2.42 W/m.K

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4. Dimension Tolerance (Test Standard: JCT 2135-2012)

Item		Tolerance	
Cell Number		± 2 cells/100cm ²	
Cell Size		$\pm 10\%$	
Size Tolerance	Width/ Length	w (h) < 100mm	± 1.5 mm
		100mm < w (h) \leq 150mm	± 2.0 mm
		150mm < w (h) \leq 250mm	± 3.0 mm
	Height	L \leq 100mm	± 1.5 mm
		100 < L \leq 250mm	± 2.5 mm
		L > 250mm	± 3.0 mm
Aspect Deformed	End surface planeness	≤ 1.5 mm	
	Side face planeness	≤ 3.0 mm	
Cracking	If the height < 150mm, no flaw If the height \geq 150mm, allow exist width \leq 0.2mm, depth \leq 2 cells, length < 1/2 product length flaw one piece		
Cell's Defect	Depth > 10mm, exist \leq 0.2% total cell's number		
Wall Defect	> 5% wall length < 2 points, total defects < 4 points		

5. Packing and Transportation

1m³, 147 / 294 pieces/m³ packed in 115 x 115 x 115cm wooden Pallets.

Transportation: 20m³ in 20 crates in 20' container.

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