



APPLIED CATALYSTS

ADVANCED TECHNOLOGY · SUPERIOR PERFORMANCE

TECHNICAL DATA SHEET

Ceramic Heat Transfer Media: Porcelain A Monoliths



Chemical Composition:

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	TiO ₂	K ₂ O+Na ₂ O+CaO
33-38%	53-58%	<1.0%	3-4%	<2.5%	<2.5%

Physical properties:

Gross density: 1.6-2.2 g/cm ³	Acid resistance: >99.5%	Avg. Linear Expansion: 4-6 X 10 ⁻⁶ /K ⁻¹
Thermal conductivity: 1.5-2.6 W/MK	Specific heat capacity: 800-1200 kJ/kg°C	
Softening point: 1400 C°	Max. operating temp.: 1350 C°	

Geometric properties:

Dimension	Number of Channels	Wall thickness	Surface Area	Void fraction	Packing density	Wt. per piece
150 X 150 X 300 mm	25 X 25	1.0 mm	580 m ² /m ³	68%	621 kg/m ³	4.20 kg
150 X 150 X 300 mm	32 X 32	1.0 mm	695 m ² /m ³	61%	666 kg/m ³	4.50 kg
150 X 150 X 300 mm	40 X 40	0.7 mm	891 m ² /m ³	65%	702 kg/m ³	4.40 kg
150 X 150 X 300 mm	43 X 43	0.7 mm	940 m ² /m ³	63%	746 kg/m ³	5.04 kg
150 X 150 X 300 mm	50 X 50	0.6 mm	1090 m ² /m ³	63 %	755 kg/m ³	5.10 kg
150 X 150 X 300 mm	60 X 60	0.5 mm	1303 m ² /m ³	63%	764 kg/m ³	5.50 kg

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