



APPLIED CATALYSTS

ADVANCED TECHNOLOGY · SUPERIOR PERFORMANCE

TECHNICAL DATA SHEET

Ceramic Heat Transfer Media: Porcelain B Monoliths



Chemical Composition:

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	TiO ₂	K ₂ O+Na ₂ O+CaO
25-29%	62-67%	<1.2%	2-4%	<3.0%	<2.5 %

Physical properties:

Gross density: 2.0-2.5 g/cm ³	Acid resistance: >95%	Avg. Linear Expansion: 5-7 X 10 ⁻⁶ /K ⁻¹
Thermal conductivity: 1.8-2.8 W/MK	Heat capacity: 800-1100 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%	651 kg/m ³	4.40 kg
150 X 150 X 300 mm	32 X 32	1.0 mm	695 m ² /m ³	61%	680 kg/m ³	4.60 kg
150 X 150 X 300 mm	40 X 40	0.7 mm	891 m ² /m ³	65%	740 kg/m ³	5.00 kg
150 X 150 X 300 mm	43 X 43	0.7 mm	940 m ² /m ³	63%	755 kg/m ³	5.10 kg
150 X 150 X 300 mm	50 X 50	0.6 mm	10906 m ² /m ³	63%	799 kg/m ³	5.40 kg
150 X 150 X 300 mm	60 X 60	0.5 mm	1303 m ² /m ³	63%	802 kg/m ³	5.42 kg

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