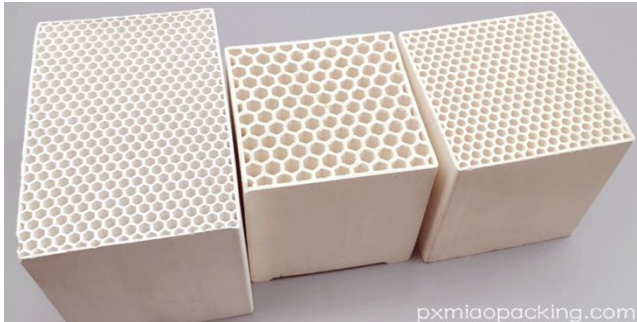


Product: Honeycomb Ceramic Block



The honeycomb ceramic block as heat exchange media is the key part for heat storage HTAC(High Temperature Air Combustion) technology, which has been widely applied in all kinds of pushing-steel heating furnace, RTO(Regenerative Thermal Oxidation), stepping heating furnace, heat treatment furnace,

forging furnace, dissolving furnace, steel wrapping/middle wrapping baking apparatus, soaking pit, radiation tap incendiary apparatus, covering furnace, high temperature hot-blast stove in metallurgical machine building and all kinds of ceramic cellar stove, glass cellar stove in building materials, and all kinds of tap heating stove, splitting stove, other industrial stove cellar,too.

Physical data

Dimension (mm)	Quantity of cells	Wall thickness (mm)	Width of cell (mm)	Surface area (m ² /m ³)	Void section (%)	Weight per piece (kg)
150*150*300	25*25	1	4.96	580	68	4.7
150*150*300	40*40	0.7	3.03	891	65	5.5
150*150*300	50*50	0.6	2.39	1090	63	6.1
150*150*300	60*60	0.5	1.99	1303	63	6.3
150*100*100	40*40	1	2.5	784	49	1.2
150*100*100	33*33	1.1	3	691	52	1.13
150*100*100	20*20	2	5	392	49	1.04
100*100*100	40*40	1	2.5	784	49	0.81
100*100*100	33*33	1.1	3	691	52	0.75
100*100*100	20*20	2	5	392	49	0.68

Chemical Composition

Chemical composition (%)	Al ₂ O ₃	25 ~38	28 ~38	40~52	55 ~65	60 ~70	70 ~80
	SiO ₂	50 ~60	45 ~55	45 ~55	25 ~35	25 ~35	15 ~25
	MgO	5 ~10	11 ~14	7~9	3~5	0 ~1	0 ~2
	others	<5	<5	<5	<5	<5	<5

Regenerator specification index

Name	Alumina	Dense Cordierite	Porous Cordierite	Cordierite-Mullite	Dense Alumina	Mullite	Corundum mullite
Density(g/cm ³)	2.0~2.3	2.1 ~2.5	1.5 ~1.9	1.8~2.3	2.4 ~2.7	2.0 ~2.5	2.3 ~2.7
Coefficient of heat expansion (×10 ⁻⁶ K ⁻¹) (20~800°C)	≤5	≤3.5	≤3.0	≤3.5	≤5	≤5	≤6
Specific Heat (J/Kg.K) (20~1000°C)	900~1150	900~1100	900~1100	900~1150	1000~1150	1000~1150	1100 ~1300
Thermal Conductivity (W/m.k) (20~1000°C)	1.5~2.0	1.5~2.5	1.2~1.8	1.5~2.0	1.5~2.5	1.5~2.0	1.5~2.5
Impact Thermal Resistance (°C/min)	≥300	≥300	≥350	≥350	≥300	≥350	≥300
Max. Working Temp. (°C)	1350	1300	1300	1320	1350	1450	1550
Water absorption(%)	15-25	≤2	15~25	15 ~25	≤2	15~25	15 ~25
Compression strength(MPa)	≥28	≥28	≥25	≥25	≥28	≥28	≥30