

CERAMIC SADDLES

Ceramic Saddles

Air Purification

Application: Ceramic Random Packing Media

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

Specification of Ceramic Saddles

Size		Unit	Deck Diamter (mm)	Outside Diameter (mm)	Height (mm)	Wall Thickness (mm)	Width (mm)
1/2"	12mm	mm	12	20	10	2.0	10
		inch	0.472	0.787	0.394	0.079	0.394
5/8"	16mm	mm	16	24	12	2.0	12
		inch	0.630	0.945	0.472	0.079	0.472
3/4"	19mm	mm	19	28	14	2.5	14
		inch	0.748	1.102	0.551	0.098	0.551
1"	25mm	mm	25	38	19	3.0	20
		inch	0.984	1.496	0.748	0.118	0.787
1.5"	38mm	mm	38	60	30	4.0	30
		inch	1.496	2.362	1.181	0.157	1.181
2"	50mm	mm	50	80	40	5.0	40
		inch	1.969	3.150	1.575	0.197	1.575
3"	76mm	mm	76	114	57	9.0	57
		inch	2.992	4.488	2.244	0.354	2.244

Chemical Composition

SiO ₂ (%)	>73	MgO (%)	<0.5
Al ₂ O ₃ (%)	17-23	K ₂ O+Na ₂ O (%)	2-4
Fe ₂ O ₃ (%)	<1.0	Other (%)	<0.1
CaO (%)	<0.5		

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Physical Performance of Ceramic Saddles

Item	Size	1/2" 12mm	5/8" 16mm	3/4" 19mm	1" 25mm	1.5" 38mm	2" 50mm	3" 76mm
Number per m ³		610,000	269,000	146,000	59,000	19,680	8,243	2,400
Bulk Density (kg/m ³)		780	700	670	630	580	550	530
Free Space (%)		68	71	75	77	80	79	75
Specific Surface Area m ² /m ³		647	535	350	254	180	120	91
Density (g/m ³)		2.3						
Water Absorption (%)		<0.3						
Acid Resistance (%)		>99.6						
Maximum Service Temperature		1100 °C						
Porosity (%)		<1						
Moh's Hardness		>6.5						
Specific Heat Capacity (J/g·K)		850-900						
Thermal Conductivity (W/m·K)		0.9-1.0						