Techim
15 rue du Général Leclerc, 78000 Versailles, France
Tel. +33 1 39 50 03 57 | commercial@techim.fr | www.techim.fr

RANDOM PACKINGS | CERAMIC

Ceramic saddles



Ceramic saddles

Ceramic saddles for random packing of mass transfer columns.

Specific gravity	2.3 to 2.4 g/cm³
Water absorption	< 0.3%
Acid resistance	> 99.6%
Max. operating temperature	1,100 °C
Porosity	< 1%
Mohs hardness	> 6.5
Thermal conductivity	0.9 to 1.0 W/m.K
Specific heat	850 to 900 J/kg.°C

Chemical analysis

SiO_2	Al_2O_3	Fe_2O_3	CaO	MgO	$K_2O + Na_2O$
68-73%	17-23%	< 1.2%	< 0.5%	< 0.5%	2-4%

Properties by size

Nominal size	1/2"	3/4"	1"	1.5"	2"	3"
Package density (kg/m³)	720	680	650	580	580	550
Free volume (%)	70	72	73	76	76	77
Surface area (m²/m³)	625	335	260	190	120	92

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Dimensions (mm)

Nominal size	DN	Deck diameter D	Outside diameter L	Height H	Wall thickness T	Width W
1/2"	12	12 ± 1.0	20 ± 1.4	10 ± 1.0	2.0 ± 0.45	10 ± 1.0
3/4"	19	19 ± 1.5	28 ± 2.0	14 ± 1.0	2.5 ± 0.5	15 ± 1.0
1"	25	25 ± 2.0	38 ± 2.0	20 ± 1.0	3.0 ± 0.5	21 ± 1.0
1.5"	38	38 ± 2.0	60 ± 3.0	29 ± 1.5	4.0 ± 1.0	32 ± 1.5
2"	50	50 ± 2.5	80 ± 4.0	39 ± 2.0	5.0 ± 1.0	42 ± 2.0
3"	76	80 ± 4.0	118 ± 4.0	60 ± 3.0	9.0 ± 1.0	62 ± 3.0

Drawing

