

Glass Column Packing

Glass column packing is commonly used in mass and heat transfer columns to provide and promote surface area within the volume of column. In glass, two most commonly used column packings are Raschig rings and pall rings.

Raschig Rings

Raschig rings are small tubular rings of borosilicate glass, usually having same diameter and height. These rings are randomly put in the column, on top of a packing support, which prevents them from moving down due to flow.

The edges of the rings are usually grinded but can also be fire-polished if required. The standard sizes are given in the below table but customized sizes and wall thicknesses can also be provided, as per customer requirement.



Size (DxH) (mm)	Wall Thickness (mm)	Density (kg/m ³)	Surface Area (m ² /m ³)	Free Volume (%)
15 x 15	1.8	620	328	72.2
20 x 20	1.8	500	260	77.6
25 x 25	2.0	420	196	81.2
30 x 30	2.0	380	176	83.0
40 x 40	2.3	320	128	85.7
50 x 50	2.5	260	96	88.3

Pall Rings

Glass Pall rings provides increased surface area as compared to Raschig ring, thus reducing the height of column required. The Free volume in the case of Pall rings is also less, thereby reducing the pressure drop across the height of the column. Additionally, the packing factor of Pall rings is lesser than Raschig rings. These factors contribute to make Pall rings more effective than Raschig rings. Pall rings are available in various sizes from 20, 25, 30, 40 and 50mm O.D. Customized sizes can also be supplied.

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