

Carbon Products (INDIA)

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CARBON RASCHIG RINGS - TOWER PACKINGS

RASCHIG RINGS have assumed an important functional role in the working of absorption towers, distribution columns, scrubbers etc. in Chemical Plants and Refineries. With the growth of chemical industries, the need for versatile Raschig Rings has also grown proportionately.



Carbon Raschig Rings (Tower Packings) exhibit such remarkable versatility that these find increasing usage in refineries & chemicals plants. Carbon Raschig Rings are characterized by unique properties as follows.

- 1) Because of their high thermal conductivity they are resistant to severe thermal shocks.
- 2) Low thermal expansion.
- 3) They are resistant to practically all corrosive chemicals over a wide range of temperatures - these include almost all acids, alkalis, alcohols, organic solvents and inorganic compounds and salts.
- 4) If required these can also withstand higher process temperatures.

5) Because of their excellent wettability by all liquids (water, inorganic salt solutions, organic solvents), they exhibit maximum efficiency during operation.

Carbon Products (India) manufacture Carbon Raschig Rings in the following sizes and physical data.

Size/Number	1	2	3	4	5
1) OD – mm (Tolerance +/- 2 to 3mm)	19	25	40	50	75
2) ID - mm (Tolerance +/- 2 to 3mm)	12	16	28	38	60
3) Length - mm (Tolerance +/- 2 to 3mm)	19	25	40	50	75
4) Approx, No. of Rings per cu. m of Tower	1,10,874	46,786	13,842	5,862	1,731
5) Sq. m of absorption surface for 1000 Nos. Rings	2.2	4.0	8.9	15.9	35.8
6) Sq. m of absorption surface per cu. m of Tower space	250	190	125	95	62
7) Kgs. of Rings per cu. m of Tower space (approx.)	575	560	565	385	325
8) Percent free gas space	67	74	67	74	78

(Note: The above physical data is drawn from standard literature and is meant for guidance only).

The type of tower packings (Raschig Rings) is chosen mainly depending on chemical conditions involved as well as for reasons of mechanical strength, resistance to corrosion and a balance of cost, capacity and efficiency. There are few applications where the low cost of carbon rings does not play an important part in its selection. Impervious carbon rings are superior in oxidizing conditions.

Carbon Products (India) can also supply Carbon Raschig Rings to suit any specific requirements such as size and chemical resistance.