Wisconsin Stamping & Manufacturing

Quality and consistency. The key to optimal performance.

Raschig Rings are cylindrical tubes of equal length and diameter and are used as random tower packing in a variety of chemical processes and mass transfer applications. Wisconsin Stamping & Manufacturing manufactures metal Raschig Rings in a range of sizes from various alloys to meet specific application requirements.

The quality and consistency of Raschig Rings is critical to the performance of any separation process. While it may appear that there is no difference in the operating characteristics of rings produced by individual manufacturers, quality and operating characteristics vary widely. Look to Wisconsin Stamping & Manufacturing for the highest quality—and most consistent—rings in the industry.

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Typical Applications

Absorbers

- CO_2 and H_2S selective absorption
- Air pollution control scrubbers
- Ammonia absorption
- FCC absorbers

Strippers

- EO/EG
- Water deaeration and decarbonation
- Sour water stripper

Heat Transfer

- DC/AC

Quench Columns

Light Ends Fractionators

- Demethanizers
- Deethanizer

Other Applications

- Absorption in gas processing and combustion plants
- Liquid/Liquid extraction
- Petrochemical distillation and extraction applications
- Desorption in water treatment
- Ethanol
- Biodiesel
- Natural gas processing
- Spirit distillation

O.D. Size Inches (mm)	Wall Thickness (Inches)	Approx. Number[1] (Pcs./ Cu. Ft.)	Approx. Weight[2] (Lbs./ Cu. Ft.)	Surface Area (Sq. Ft./ Cu. Ft.)	Free Space %	Packing Factor (F)
.250 (6)	.032	88,000	133	224	72	700
.295 (7.5)	.015	54,000	62	205	91	630
.312 (8)	.032	45,000	120	190	75	505
.375 (10)	.032	27,000	94	161	81	390
.500 (13)	.032	11,400	75	122	85	300
.625 (16)	.032	6,190	62	103	87	170
.750 (19)	.032	3,340	52	81	89	185
.750 (19)	.062	3,140	94	75	80	230
1.00 (25)	.032	1,430	39	62	92	115
1.00 (25)	.062	1,310	71	56	86	137
1.25 (32)	.062	725	62	48	87	110
1.50 (38)	.062	400	49	39	90	83
2.00 (51)	.062	168	37	29	92	57
3.00 (76)	.062	51	25	20	95	32

[1] 1 cu. ft. = .0283 cu. meters
[2] Weights shown are for carbon steel. In percentage of weights shown, stainless weighs 105%, copper 120%, aluminum 37%, Monel and nickel 115%.

Additional Sizes Available Upon Request

Material Options

- Steel
- Stainless Steel
- Aluminum
- Copper
- Nickel
- Monel
- Inconel
- Hastelloy
- Nickel Alloys
- Duplex Alloys
- Other High Performance Metals

The History of the Raschig Ring

Before Frederick Raschig invented the tower packing shape design, columns were filled with quartz, broken glass bottles and pottery, or coke. Operating data from one tower could not be used in other towers because the packing material was not consistent.

The Raschig Ring gave the packed column consistency and dependability, significantly improved column operating characteristics, and enabled performance characteristics to be duplicated in other columns of equal size. Cost effective and long-lasting, Raschig Rings are among the most widely used tower packing materials.

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