

# CARBON RASCHIG RINGS

## FULLY CARBONIZED TUBULAR TOWER PACKING RINGS



Raschig rings are shapes of tubular carbon used in quantity to create a randomly packed bed for various material processing functions. The rings provide a large surface area for interaction between the carbon and the material being processed.

Benefits derived from the use of carbon Raschig ring tower packing are corrosion resistance, thermal shock resistance and high temperature stability.

### FEATURES

- Low coefficient of thermal expansion; resists damage caused by severe shocks.
- May be used in most acids, alkalies and solvent environments. (Not recommended in highly oxidizing conditions.)
- Lightweight with high mechanical strength, having no soluble bond.
- Long-life packing with high temperature operating capabilities.
- Used in chlorine-hydrochloric mixtures and phosphoric acid.
- Fully carbonized to eliminate extractable impurities.

### PHYSICAL PROPERTIES

Porosity	Density	Carbon	Ash	Length	Diameter	Max Temperature
25%	0.83 oz/in <sup>3</sup> (1.45 gm/cm <sup>3</sup> )	> 99.5%	< 0.5%	±1/8 inch (3.175 mm) of diameter	typical ±1/16 inch (1.59 mm)	752°F (400°C)

### AVAILABILITY

These rings are stocked in six sizes to meet all packed tower requirements.

Raschig Ring Standard Sizes							
Raschig Ring Part Numbers	Size Nominal OD	Size Nominal ID	Wall Thickness	Bulk Weight	Surface Area	Free Space	Number of Rings
	inch (mm)	inch (mm)	inch (mm)	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	ft <sup>2</sup> /ft <sup>3</sup> (m <sup>2</sup> /m <sup>3</sup> )	(%)	approx. pieces/ft <sup>3</sup>
P016-401930	0.5 (13)	1/4 (6.4)	1/16 (1.75)	30 (474)	117 (384)	71	10567
P016-400941	0.75 (19)	1/2 (12.7)	5/32 (4.24)	38 (602)	67 (219)	61	2100
P016-400942	1 (25)	3/4 (19.1)	9/64 (3.48)	29 (464)	61 (200)	69	1352
P016-400943	1.5 (38)	1 (25.4)	1/4 (5.72)	31 (493)	39 (128)	67	364
P016-400944	2 (51)	1-1/2 (38.4)	9/32 (7.14)	27 (438)	29 (94)	71	180
P016-400945	3 (76)	2-3/8 (60.3)	11/32 (8.63)	21 (333)	17 (56)	78	40

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

Product Type: 140

Commodity Code: 26806, 27405

Contact Information: [www.pyrotek.info/locations](http://www.pyrotek.info/locations)