



Ceramic tower packing for mass transfer applications

Celene produces a large range of ceramic tower packing products for mass transfer applications. These products play an important role in the manufacturing processes of several kinds of industries such as Chemicals, Fertilizers and Petrochemicals, being used in Distillation Towers, Absorption Towers, Stripping Towers, Gas Scrubbing Towers, etc. Ceramic Tower Packings are routinely used in the following services or applications: acid gas removal systems, bromine plants, ltration, glycol dryers, pickling, sulfuric acid plants, thermal regenerators and water treatment.

Celene ceramic tower packings provide an efficient way to perform heat transfer, uid dissociation and corrosive acid applications with no difficulties and in a low maintenance cost. They are available as: saddles (Celenox and Berl), rings (Raschig, Pall, Lessing and Cross-Partition) and balls (Porcelain and Alumina).

Celene produces a large diversity, in different types and sizes, of ceramic tower packings, and also maintains a oating supply of these products for prompt delivery. celene ceramic tower packings are produced in low porosity chemical porcelain (balls can be produced in alumina also), which offers improved corrosion resistance over traditional stoneware materials. These products are red at high temperatures and offer excellent mechanical, abrasion, chemical and heat resistance. celene ceramic tower packings are practically immune to the corrosion caused by alkali and acid (with the exception of uorhydric acid).

Celene ceramic tower packings constitute excellent options whether the application is related to a new installation or a capacity upgrade for an existing unit.

Typical Applications:

Absorption;
Air Stripping;
Corrosive Distillation;
Drying and Cooling;
Condensation;
Scrubbing;
Mixing;
Aerating;
Degassing;
Water Treatment and Desalting;
Mercaptan removal;
Natural gas or LPG sweetening.

Ceramic Tower Packings are largely used in ClO₂, SO₂, SO₃, HCL, H₂SO₄ and CO₂ chemical plants.



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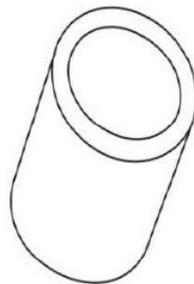
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RASCHIG RINGS

Raschig rings are specially used in Chemical Industries, by providing several advantages such as low pressure loss, good efficiency and economy. Like all types of ceramic tower packing manufactured by celene, raschig rings are produced in dense low porosity chemical porcelain, totally free of metal (Fe), which offers maximum resistance to thermal shock. During manufacturing process, quality assurance testing is conducted in order to allow a constant satisfying efficiency in the tower operation for many years.





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In order to facilitate an appropriate choice, the following tables provide you with some information on the static properties of several types of ceramic tower packings. The tables correlate the different types and dimensions of the pieces with the approximate values of: weight; surface area per cubic foot; and free space percentage.

Static Properties Table - Rings

TYPE	SIZE - DIAMETER (inches)	WALL THICKNESS (inches)	WEIGHT (Lb/ft ³)	CONTACT SURFACE (ft ² /ft ³)	% FREE SPACE
Raschig Rings	1/2"	3/32	44	99	64
	5/8"	3/32	42	84	67
	1"	1/8	39	59	74
	1 1/2"	1/4	36	59	73
	2"	1/4	36	36	75
	2 1/2"	1/4	31	27	77
	3"	3/8	33	19	77
	4"	3/8	28	13	80

NOTE: The information given above is believed to be accurate and reliable but it is not to be construed as implying any warranty or guarantee of (a maximum variation of 10%, above or below, over these numbers is tolerable).