



Companhia
Eletrocerâmica
do Nordeste

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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 ongoing 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 resistant 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 hydrofluoric 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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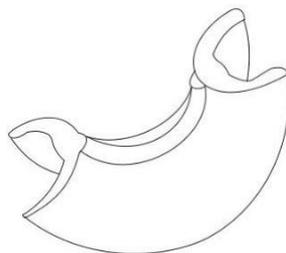
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CELENOX SADDLES

Asymmetrical-shaped saddles. In comparison with berl types, these saddles offer some advantages such as greater load capacity and superior dissociation efficiency, with low pressure loss. They also offer an increased homogeneity in fluid distribution. Celenox saddles allow bigger gas and liquid quotas to smaller pressure decrease than other types of ceramic tower packing. In many cases, it's possible to increase the capacity and efficiency of a tower by using Celenox saddles. Among all different types of ceramic tower packings, Celenox Saddles offer, due to their specific shape, the maximum useful contact area and the minimum resistance to the passage of the fluid stream through the column or tower. These saddles are particularly suited for applications involving thermal shock conditions or continuous high temperature operations. Celenox Saddles offer excellent chemical and abrasion resistance as well as high mechanical strength.





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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 - Saddles

TYPE	SIZE (polegadas)	WEIGHT (Lb/ft ³)	CONTACT SURFACE (ft ² /ft ³)	% FREE SPACE
Celenox Saddles	3/4"	39	102	72
	1"	37	78	73
	1 1/2"	44	46	72
	2"	36	37	73
	2 1/2"	36	32	74
	3"	37	28	74

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).