



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 constant 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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ALUMINA BALLS

Celene high alumina balls are manufactured with exclusive production and ring technology. They are used as catalyzer support frame or substructure in several different chemical processes. celene alumina balls are produced in several different diameters. However, the most commonly required types are those whose diameters vary between 1/16" and 1 1/4".

Physical Properties:

Al₂O₃ Contents (% weight): > 87 %
Water Absorption: < 7 %
Density: > 2.8 g/cm³
Maximum Operation Temperature: 1500°C

Technical Specification (Chemical Composition):

| Component | Percentage |
|--------------------------------|------------|
| Al ₂ O ₃ | > 92 |
| SiO ₂ | 3.82 |
| MgO | 1.44 |
| Fe ₂ O ₃ | 0.54 |
| Na ₂ O | 0.46 |
| CaO | 0.13 |
| K ₂ O | 0.01 |