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RANDOM PACKINGS | CERAMIC

# Ceramic single partition rings (Lessing rings)



Ceramic Lessing rings

Ceramic single partition rings (Lessing rings) for mass transfer column packing.

| | |
|---|---|
| Water absorption | < 0.5% |
| Apparent porosity | < 1% |
| Specific gravity | 2.3 to 2.4 |
| Max. operating temperature | 1,100 °C |
| Mohs hardness | > 7 |
| Acid resistance | > 99.6% |

## Chemical composition

| $Al_2O_3$ | $SiO_2$ | $Fe_2O_3$ | CaO | MgO | $K_2O + Na_2O$ | Other |
|---|---|---|---|---|---|---|
| **17-25%** | > 73% | < 1.0% | < 0.5% | < 0.5% | 2-4% | < 0.1% |

## Geometric characteristics

| Size (mm) | Average thickness (mm) | Surface area ($m^2/m^3$) | Void section (%) | Number per $m^2$ | Approx. number per $m^3$ | Bulk density ($kg/m^3$) |
|---|---|---|---|---|---|---|
| **100** | 8 to 10 | 80 | 63 | 108 | 1,080 | 860 |
| **120** | 8 to 11 | 67 | 62 | 75 | 625 | 865 |
| **200** | 17 to 20 | 41 | 71 | 26 | 130 | 675 |