

# Cylindrical Rings Stoneware



## Technical properties (dumped)

Nominal size [mm]	Packing density [kg/m <sup>3</sup> ]	Specific surface [m <sup>2</sup> /m <sup>3</sup> ]	Void fraction [%]
6	1050	700	54
8	1000	623	57
10	820	499	64
15	780	274	66
25	610	174	73
38	550	121	76
50	520	86	77
80	536	81	77
100	670	64	71

### Chemical composition

SiO <sub>2</sub>	68-72	MgO	0,6
Al <sub>2</sub> O <sub>3</sub>	18-22	CaO	0,6
Fe <sub>2</sub> O <sub>3</sub>	max. 1	K <sub>2</sub> O	3,5-4,5
		Na <sub>2</sub> O	0,1-0,3
Soluble Fe: < 0,1 %			
Sulphuric acid resistance: 99,5 % (DIN 993-16)			

### Physical properties

Density	g/cm <sup>3</sup>	2,3
Water absorption	wt.-%	<0,8 %
Compressive strength	N/mm <sup>2</sup>	300-500
E-Modulus	GPa	60
Mohs Hardness		7-8
Specific heat 30°C to 100 °C	J/kg K	840-920
Thermal conductivity 30 °C to 100 °C	W/mK	1-1,5
Coefficient of thermal expansion 20 °C to 600 °C	10 <sup>-6</sup> K <sup>-1</sup>	4-7
Heat resistance	bis ca. °C	800

Material	Stoneware
Other sizes	on request

Status 04-09

The values indicated above apply for a ratio of diameter of vessel to tower packings of D/d = 20.

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