

# Raflux-Rings Ceramic



## Technical properties

Size [mm]	Packing density [kg/m <sup>3</sup> ]	Specific surface [m <sup>2</sup> /m <sup>3</sup> ]	Void fraction [%]
25-3	620	220	73
35-4	540	165	76
50-5	550	120	78
75-8	540	98	78
80-9	520	80	79
90-9	504	77	78

### Chemical composition

SiO <sub>2</sub>	≈ 70 %	MgO	≈ 0,4
Al <sub>2</sub> O <sub>3</sub>	≈ 25 %	CaO	≈ 0,2
Fe <sub>2</sub> O <sub>3</sub>	≈ 1	K <sub>2</sub> O	≈ 3
TiO <sub>2</sub>	≈ 1,4	Na <sub>2</sub> O	≈ 0,15
Soluble Fe: < 0,01 %			
Acid resistance: 99,5 % (DIN 51102 Bl. 2)			

### Physical properties

Density	gr/cm <sup>3</sup>	2,3
Water absorption	wt.-%	0,3
Compressive strength	N/mm <sup>2</sup>	300-500
E-Modulus	Gpa	60
Mohs Hardness		7-8
Specific heat 20 °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	10-6K-1	4-7
Heat resistance	up to °C	1000

stzrafringv 09 / 07 e

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

All information presented herein is believed to be accurate and reliable but does not constitute a warranty or performance guarantee on part of RVT Process Equipment GmbH.