

Raflux rings ceramic



Technical properties

Size [mm]	Packing density [kg/m ³]	Specific surface [m ² /m ³]	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 ₂	≈ 70 %	MgO	≈ 0,4
Al ₂ O ₃	≈ 25 %	CaO	≈ 0,2
Fe ₂ O ₃	≈ 1	K ₂ O	≈ 3
TiO ₂	≈ 1,4	Na ₂ O	≈ 0,15
Soluble Fe: < 0,01 %			
Acid resistance: 99,5 % (DIN 51102 Bl. 2)			

Physical properties

Density	gr/cm ³	2,3
Water absorption	wt.-%	< 2,0
Compressive strength	N/mm ²	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

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

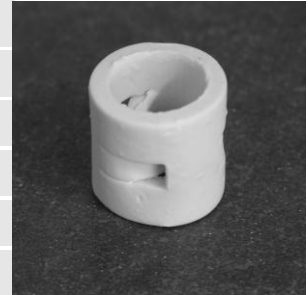
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Raflux ring 25-3 ceramics

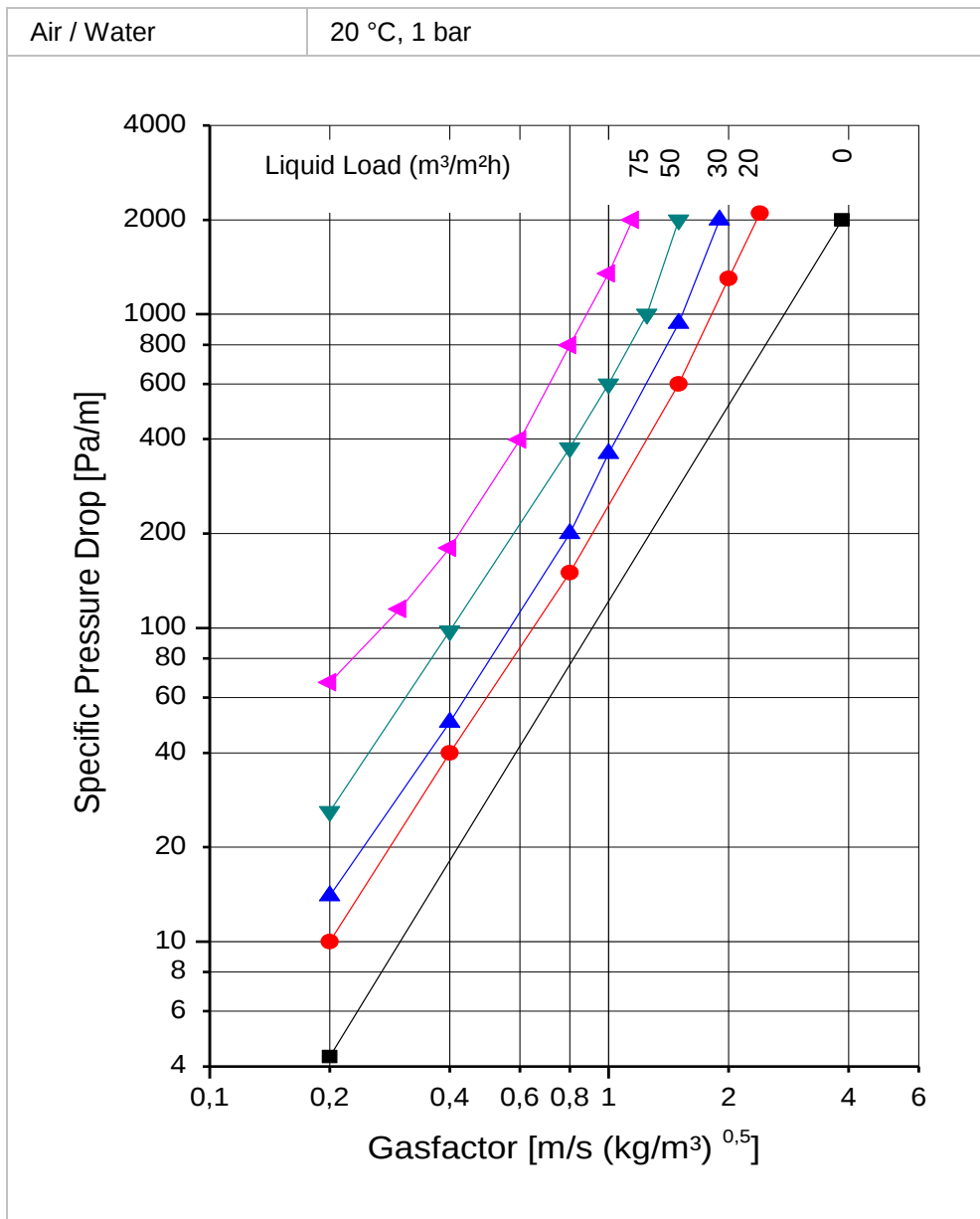


Physical data

Nominal size	25 mm
Weight	620 kg/m ³
Surface area	220 m ² /m ³
Void fraction	73 %
Material	stoneware
Available material	stoneware



Pressure drop



KE221 02.05.06

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

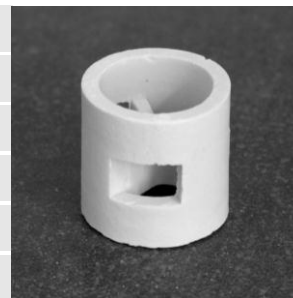
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Raflux ring 35-4 ceramics

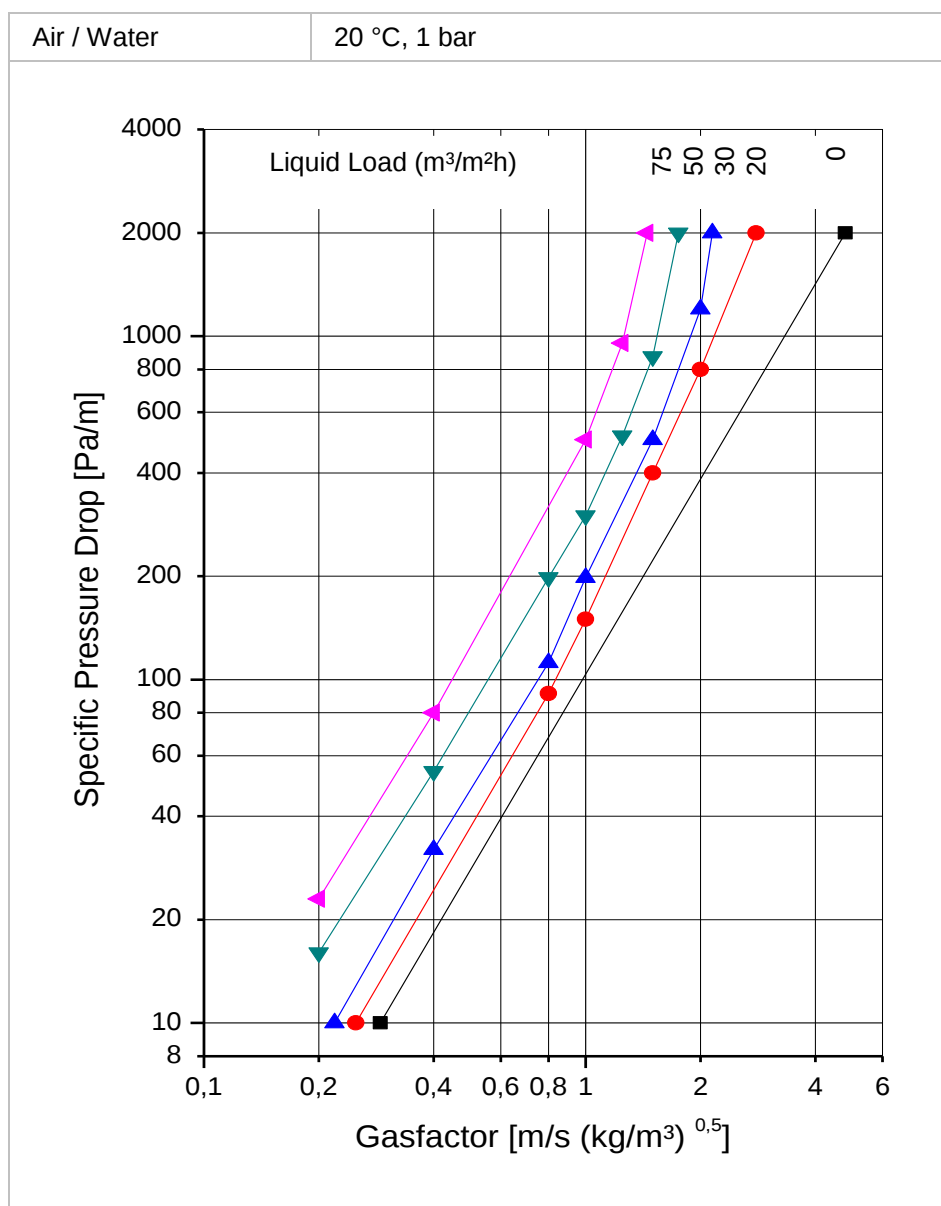


Physical data

Nominal size	35 mm
Weight	540 kg/m ³
Surface area	165 m ² /m ³
Void fraction	76 %
Material	stoneware
Available material	stoneware



Pressure drop



KE222 02.05.06

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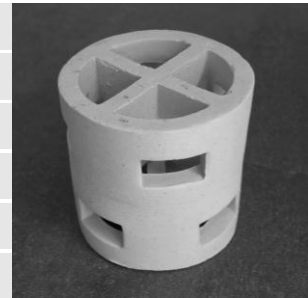
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Raflux ring 50-5 ceramics

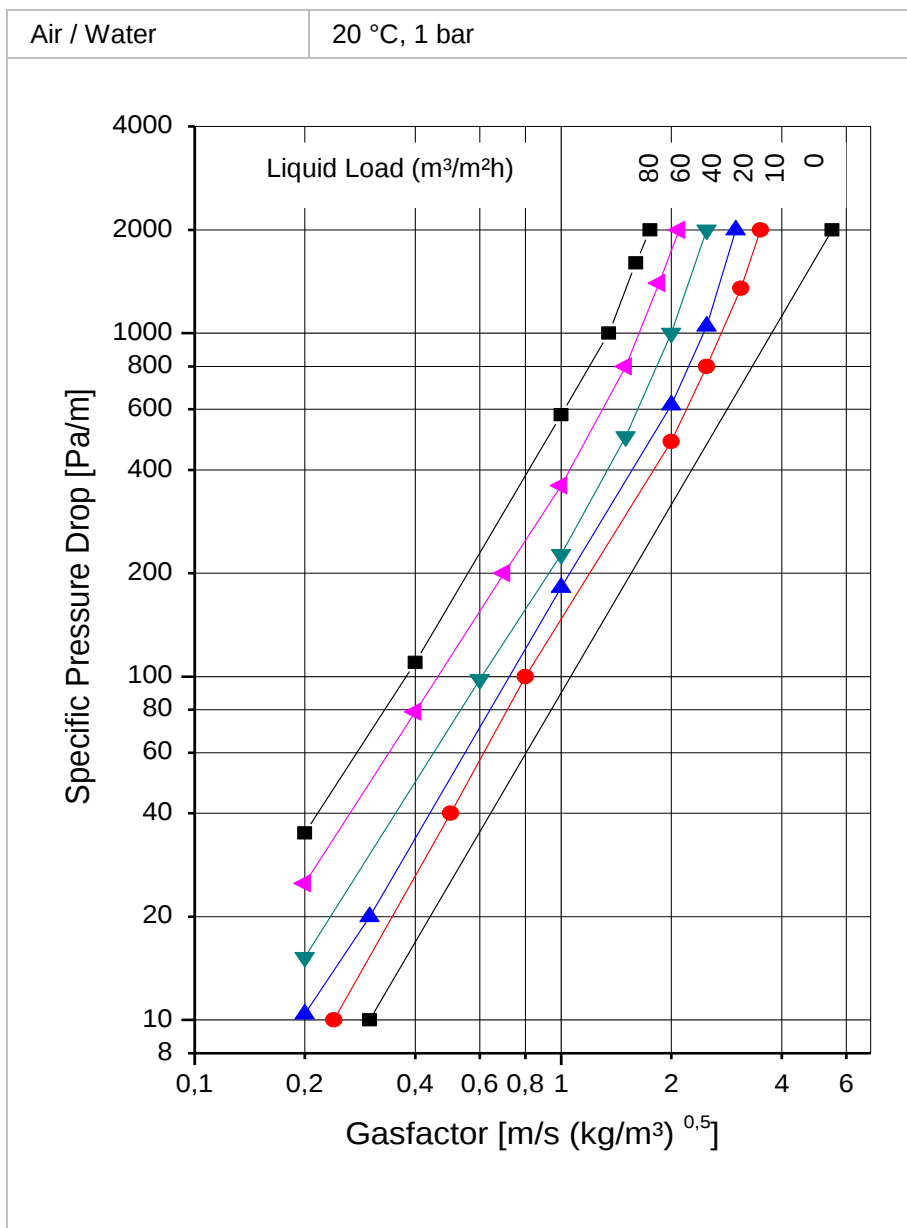


Physical data

Nominal size	50 mm
Weight	550 kg/m ³
Surface area	120 m ² /m ³
Void fraction	77 %
Material	stoneware
Available material	stoneware



Pressure drop



KE223 02.05.06

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

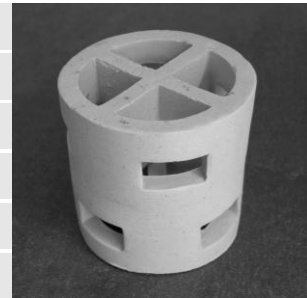
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Raflux ring 90-9 ceramics

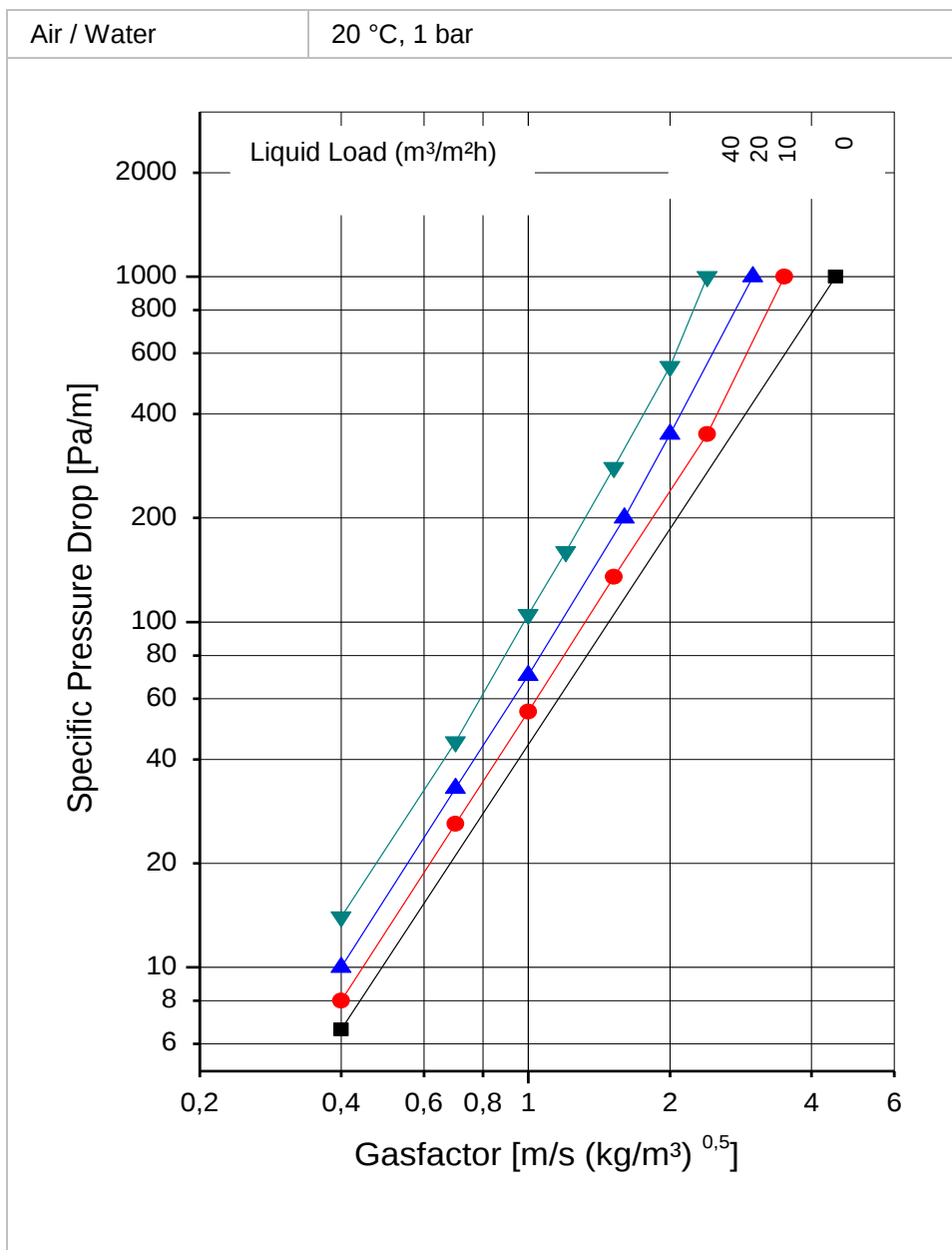


Physical data

Nominal size	90 mm
Weight	504 kg/m ³
Surface area	77 m ² /m ³
Void fraction	78 %
Material	stoneware
Available material	stoneware



Pressure drop



KE224 02.05.06

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