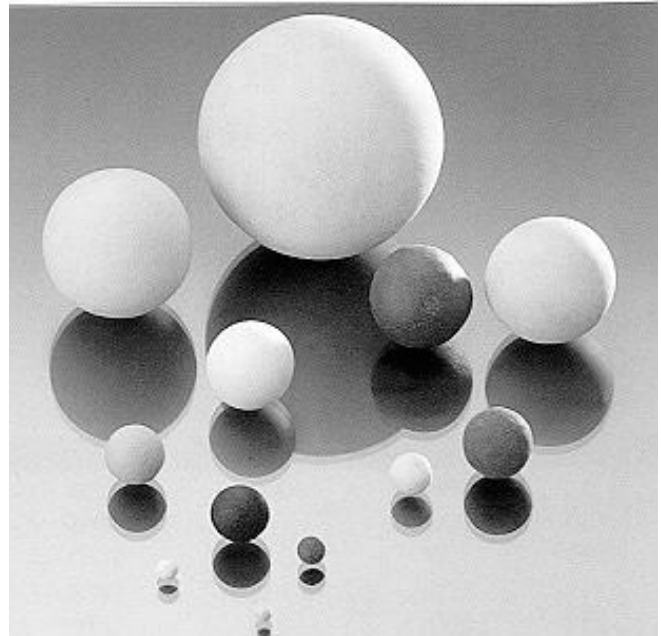


# HiDur™ Inert Ceramic Balls

## Technical data



### Typical chemical composition Stoneware

SiO <sub>2</sub>	< 81 %	CaO	0,01 - 0,2 %
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub>	> 90 %	K <sub>2</sub> O	2,8 - 5,8 %
TiO <sub>2</sub>	0,01 - 0,15%	Na <sub>2</sub> O	0,01 - 0,8 %
Fe <sub>2</sub> O <sub>3</sub>	0,4 - 1,2 %	Soluble Fe: <= 0,1 %	

## Typical physical properties

Density	g/cm <sup>3</sup>	2,3-2,4
Water absorption	Weight.-%	0,1-0,5
Compressive strength	N/mm <sup>2</sup>	400
E-Modulus	GPa	60
Mohs Hardness		7-8
Specific heat, 30°C - 100°C	J/kgK	840
Thermal conductivity, 30°C - 100°C	W/mK	1-1,5
Coefficient of thermal expansion	(20°C–600°C) 10 <sup>-6</sup> K <sup>-1</sup>	4,7
Heat resistance	up to c. °C	1000

## Specific properties balls

Size inch mm	Packing density, kg/m <sup>3</sup>	Spec. surface, m <sup>2</sup> /m <sup>3</sup>	Void space, %	Compressive strength per ball, N
1/8"-3,2 (2,8-5,3)	1350	720	44	300
1/4"-6,4 (5,3-8,1)	1350	520	44	600
3/8"-9,5 (8,1-11,2)	1350	360	44	1200
1/2"-12,7 (11,2-15)	1350	275	45	2300
5/8" (14,3-18,7)	1350	220	45	3300
3/4"-19,1 (17,5-22,4)	1350	190	45	4300
1"-25,4 (22,4-29,2)	1350	144	45	7950
1 ¼"-31,8 (29,2-35,5)	1350	120	45	8500
1 ½"-38,1 (35,5-41)	1350	100	45	9100
2" – 50,8 (48,3 – 55)	1350	72	45	9100

kustz e 05.06.2008

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