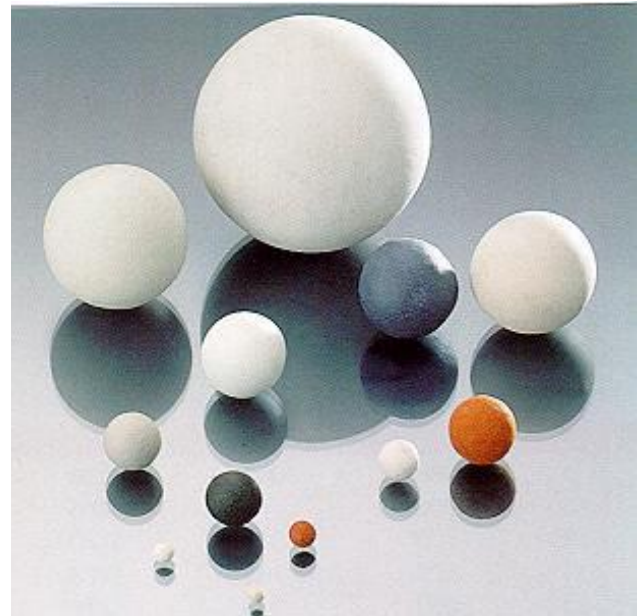


# HiDur™ Inert Ceramic Balls



## Technical Data

### Typical chemical composition

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
E-Modulus	GPa	60
Mohs Hardness		7 - 8
Specific heat, 30°C to 100°C	J/kgK	840
Thermal conductivity, 30°C bis 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	1000

## Specific properties of stoneware balls

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
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 e30.09.2008

All information presented herein is believed to be accurate and reliable but does not constitute a warranty or performance guarantee on part of RVTPE GMBH