

<b>CERALNIT - Ceramic Balls / High Alumina Content</b>	<b>14-06-17</b>
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### 1. Operating Data



Nominal Size	Diameter (mm) CERALNIT	Crush strength (KN/particle)
1/8"	3 - 5	> 2
1/4"	6 - 8	> 4.6
3/8"	9 - 11	> 6
1/2"	11 - 14	> 8.7

3/4"	19 - 21	> 12
1"	23 - 28	> 16
1 1/2"	35 - 42	> 23
2"	50 - 55	> 34
3"	72 - 80	> 60

### 2. Chemical Composition

Component	Techim Alumina Balls CERALNIT
Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	> 99,3 %
SiO <sub>2</sub>	< 0,15 %
Fe <sub>2</sub> O <sub>3</sub>	< 0,05%
CaO+MgO	< 0,1 %
Na <sub>2</sub> O+ K <sub>2</sub> O	<. 0,5 %

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### 3. Physical Figures



		<b>Techim Alumina Balls CERALNIT</b>
Particle Density	g/cm <sup>3</sup>	3,0 – 3,5
Bulk density (for average particle density)	kg/m <sup>3</sup>	ca. 1800-2200
Water absorption	Weight-%	< 5
Thermal conductivity	KJ/m,h,°C	14,6
Thermal expansion	1/°C	6,7 10 <sup>-6</sup>
max. application temp.	°C	1650

Subject to technical modification. All data represent provisional information only.  
No claims based on these data will be entertained.