

### Material properties

	1260/300	1400/320	1600/300	1600/400	1750/400	1800/400	1800/700	1850/500*
<b>Chemical Composition (%)</b>								
Al <sub>2</sub> O <sub>3</sub>	46	40	65	67	72	75	85	90
SiO <sub>2</sub>	54	46	35	33	28	25	15	10
<b>Max. Application Temperature (°C)</b>								
Continuous	1100	1300	1500	1500	1700	1750	1750	1800
Short term	1260	1430	1600	1600	1750	1800	1800	1830
Density (kg/m <sup>3</sup> )	300	320	300	400	400	400	700	500*
Bending strength (kgf/cm <sup>2</sup> ) at room temperature	> 5	> 5	> 6	14.9	> 7	> 7	> 10	> 14
<b>Linear Change of Dimension (%)</b>								
at 1,200°C x 24h	-3.5	-2.0	-0.0	0.8	-	-	-	-
at 1,700°C x 24h	-	-	-	-	-0.6	-0.4	-0.4	-
at 1,800°C x 24h	-	-	-	-	-	-	-	-0.5
<b>Thermal Conductivity (W/mK) by Mean Temperature</b>								
800°C	0.15	0.16	-	0.16	0.15	0.21	0.21	0.23
1,200°C	-	0.35	0.36	0.23	0.21	0.23	0.23	0.25
1,400°C	-	-	-	0.28	0.26	0.30	0.30	0.32
Ignition loss (%) (all types also available as pre-fired boards)	4.8	4.9	4.5	5.1	3.9	4.0	4.3	4.0

\*also 700 kg/m<sup>3</sup> available

### Types available

Standard dimension Board	900 x 600mm	1000 x 500mm
Thickness Board	20 – 100mm	20 – 100mm
Max. Diameter Vacuum Shape	1500mm	
Max. Length Vacuum Shape	1600mm	

All grades are also available in high purity grades. Na<sub>2</sub>O (Sodium Oxide) and Fe<sub>2</sub>O<sub>3</sub> (Ferrum Oxide) are drastically reduced for semiconductor and advanced industry.