

### General Properties

<b>Crystalline Phase</b>	BN-45% ZrO <sub>2</sub> -45%
<b>Binder Phase / Binder Type</b>	Borosilicate
<b>Colour</b>	Grey
<b>Typical Applications</b>	Extreme wear and Corrosion Resistance in Molten Metal Applications
<b>Directionality</b>	Parallel / Perpendicular

### Mechanical Properties

<b>Flexural Strength</b>	144 / 107
<b>Young Modulus</b>	71 / 71
<b>RT Compression</b>	218 / 253
<b>Open Porosity</b>	1.066
<b>Density (g/cc mm<sup>2</sup>)</b>	2.9
<b>Hardness-Knoop (KG/mm<sup>2</sup>)</b>	100

### Thermal Properties

<b>Thermal Conductivity @25°C W/mK</b>	24 / 34
<b>Coefficient Thermal Expansion (10<sup>-6</sup>)</b>	25 – 400°C 4.1 / 3.4 400 – 800°C 5.6 / 4.3 800 – 1200°C 7.2 / 5.2 1200 – 1600°C 4.6 / 3.4 1600 – 1900°C N/A
<b>Specific Heat @ 25°C J/gK</b>	0.64
<b>Max Temperature @ Oxidising / Inert</b>	850 / 1600°C +

### Thermal Properties

<b>Dielectric Constant @ 1 MHz</b>	N/A
<b>Dissipation Factor @ 1 MHz</b>	N/A
<b>Dielectric Strength</b>	N/A
<b>RT Resistivity (Ohm cm)</b>	>10 <sup>13</sup> >10 <sup>14</sup>