

<b>Zirconia Technical Data Sheet</b>			
<b>Chemistry Content</b>			
	ZrO2		95%
	Y2O3		5%
	Density	g/cm <sup>3</sup>	6
<b>Substance Characteristic</b>	Water Absorption	%	0
	Sinter Temperature	°C	1600
<b>Physical Characteristic</b>	Hardness	HV	1300
	Bending Strength	Kgf/cm <sup>2</sup>	11000
	compressive strength	Kgf/cm <sup>2</sup>	25000
	fracture toughness	Map.m <sup>3/2</sup>	6 to 8
	Max Using Temperature	°C	1300
<b>Thermal Characteristic</b>	Coefficient of Thermal Expansion	/°C	9.5*10 <sup>-6</sup>
	heat-resistant Temperature	T(°C)	360
	Thermal Conductivity	W/m.k(25-300°C)	3-
		20°C	>10 <sup>12</sup>
	Volume Resistance		
		300°C	5*10 <sup>9</sup>