

## YTY: 3Y-ZrO<sub>2</sub> Product Index

Zirconia Material Property		Unit	Values	
1	Main Chemical Content	ZrO <sub>2</sub> +HfO <sub>2</sub>	wt%	≥94.6
		Y <sub>2</sub> O <sub>3</sub>	wt%	≤5.4
2	Physical Properties	Melting Point	°C	2715
		Ceramic Temperature Resistance	°C	≥1200
		Color	-	white or faint yellow
		Density	g/cm <sup>3</sup>	≥5.95
3	Mechanical Properties	Flexural Strength	MPa	≥1200
		Young's Module	GPa	/
		Hardness (HRA)	MPa	≥89
4	Thermal Properties	Thermal Expansion Coefficient (20°C)	10 <sup>-6</sup> K <sup>-1</sup>	/
		Thermal Conductivity	W/m.k	2
5	Electrical Properties	Dielectric Constant	1MHz	/
		Electrical Resistivity	-	/