

Yttria-stabilized Zirconium Oxide (YSZ)

Formula	ZrO ₂ : Y (9.5 mol%Y ₂ O ₃)
Crystal Growth	
Growth Method	Skull Melting
Max. Diameter (inch)	Ø2"
Crystallographic Properties	
Crystal Structure	cubic
Lattice Constant (nm)	a = 0.5125
Physical Properties	
Color	colorless
Density (g/cm ³)	5.92
Melting Point (K)	3053
Thermal Expansion (10 ⁻⁶ K ⁻¹)	9.2
Dielectric Constant	27
Thermal Conductivity (W/m K)	1.8
Hardness (Mohs)	8.7

