

Y:ZrO₂ - YSZ

for Research and Development



CrysTec

KRISTALLTECHNOLOGIE

Growth Method:	skull melting method
Crystal Structure:	cubic
Density (25°C):	5.9 g/cm ³
Lattice Constant:	a = 0,512 nm
Colour:	colourless

Physical Properties:	
Melting Point:	2780 °C
Hardness:	8.7 (Mohs)
Thermal Conductivity:	1.8 W/m K
Thermal Expansion:	9.2 x 10 ⁻⁶ K ⁻¹
Dielectric Constant:	27 (?)
Refractive Index	n = 2.15
Dispersion	0.06
Transmission range	0.4 - 6.5 μm

Orientation:	(100), (110), (111)
Standard Size:	1", 2", 10 x 10 mm ²
Standard Thickness:	0.5 mm, 1 mm
Surface:	one- or both side epipolished

► For further information please feel free to ask.