

Mateck Zirconium Oxide Substrate, ZrO₂:Y(9.5% Y)

Category : Ceramic , Oxide , Zirconium Oxide

Material Notes:

Substrate single crystals for superconductivity

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mateck-Zirconium-Oxide-Substrate-ZrO2Y95-Y.php

Physical Properties	Metric	English	Comments
a Lattice Constant	5.125 Å...	5.125 Å...	

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 Åµm/m-Å°C	4.44 Åµin/in-Å°F	
Melting Point	2780 Å°C	5040 Å°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	27	27	

Descriptive Properties	Value	Comments
Flatness (Åµm/10mm), max	1	
Growth Techniques	Flux	
Orientation	(100)	
Orientation Accuracy (Å°), Max	0.5	
Parallelness (Å°), max	0.02	
Polishing	standard: one side epi-polished	
Production Method	Skull method	
Roughness of surface (angstroms), max	40	
Scratches	none	
Standard Size (mm)	10 x 10 x 0.5	
State	monocrystalline	
Structure	cubic	
Surface Quality	with light microscope without defects	

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