

Mateck Strontium Titanium Substrate, SrTiO3

Category : Ceramic , Oxide

Material Notes:

Substrate single crystals for superconductivity

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mateck-Strontium-Titanium-Substrate-SrTiO3.php

Physical Properties	Metric	English	Comments
a Lattice Constant	3.90 Å...	3.90 Å...	

Thermal Properties	Metric	English	Comments
CTE, linear	11.1 Åµm/m-Å°C	6.17 Åµin/in-Å°F	
Melting Point	2080 Å°C	3780 Å°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	310	310	

Descriptive Properties	Value	Comments
Growth Techniques	Verneuil	
Lattice Parameter (Å...)	3.905	
Orientation	(100)	
Orientation Accuracy (Å°), Max	0.5	
Parallelness (Å°), max	0.02	
Polishing	standard: one side	
Roughness of surface (angstroms), max	30	
Scratches	none	
Standard Size (mm)	10 x 10 x 1 or 0.5	
State	monocrystalline	
Structure	cubic	
Surface Quality	with light microscope without defects	
Tolerance of Length (mm)	Å± 0.1	
Tolerance of Thickness (mm)		

Descriptive Properties	A+ 0.05 Value	Comments
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