

## Mateck Zinc Sulphide, ZnS

Category : Ceramic , Sulfide/Chalcogenide , Other Engineering Material , Semiconductor

### Material Notes:

Semiconductor single crystals. Twins and stacking faults < 4% of hexagonal phase.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mateck-Zinc-Sulphide-ZnS.php](http://www.lookpolymers.com/polymer_Mateck-Zinc-Sulphide-ZnS.php)

Physical Properties	Metric	English	Comments
a Lattice Constant	5.4093 Å...	5.4093 Å...	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+8 - 1.00e+12 ohm-cm	1.00e+8 - 1.00e+12 ohm-cm	undoped
Hole Mobility, cm <sup>2</sup> /V-s	140	140	

Descriptive Properties	Value	Comments
Crystal Axis	(111)	
EPD (cm <sup>-2</sup> ), MAX	500000	
Orientation	(100); (110); (111)	
Orientation Accuracy ( Å° ), Max	1	
Polishing	chemical mechanical polishing	
	one side or both sides polished	
	optical polishing	
Production Method	Markov	
Standard Size (mm)	10 x 10 x 0.5 or 1	
	5 x 5 x 0.5 or 1	
Structure	cubic	
Tolerance of Diameter (mm)	0.000 / -0.100	
Tolerance of Length (mm)	0.05	
Tolerance of Thickness (mm)	0.05	

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