

## Neodymium Gallate

<b>Formula</b>	NdGaO <sub>3</sub>
<b>Crystal Growth</b>	
Growth Method	Czochralski
Growth Direction	[110]
Max. Diameter (inch)	Ø3"
<b>Crystallographic Properties</b>	
Crystal Structure	orthorhombic
Lattice Constant (nm)	a = 0.5428 b = 0.5499 c = 0.7708
	without twins
<b>Physical Properties</b>	
Color	violet
Density (g/cm <sup>3</sup> )	7.57
Melting Point (K)	1873
Thermal Expansion (10 <sup>-6</sup> K <sup>-1</sup> )	9
Dielectric Constant	20
Loss Tangent (@ 77K, 10GHz)	~ 3x 10 <sup>-3</sup>

