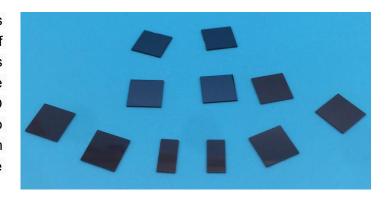


## Neodymium Gallate(NdGaO<sub>3</sub>)

Neodymium Gallate(NdGaO<sub>3</sub>)is mainly used as a substrate for epitaxial film growth of high-temperature superconductors (such as YBCO) and magnetic materials. Because the lattice mismatch between NdGaO<sub>3</sub> and YBCO is very small (~0.27%), and there is no structural phase change, a good quality film can be epitaxially grown on the NdGaO<sub>3</sub> substrate.



## **PARAMETERS**

Parameters	
Crystal Structure	Orthogonal
Lattice Constant	a=5.43 Å, b=5.50 Å, c=7.71 Å
Melting point	1600℃
Density	7.57 (g/cm³)
Dielectric Constants	25
Growth Method	Czochralski
Dimension	10x3mm, 10x5mm, 10x10mm, 15x15mm, 20x15mm, 20x20mm
Thickness	0.5mm,1.0mm
Polishing	One side or two sides
Orientation	<100> <110> <111>
Crystal Plane Orientation	±0.5°
Accuracy	
Edge Orientation Accuracy	2° (Special requirements can reach within 1°)
Bevel Wafer	According to specific requirements, wafers with edge-oriented
	crystal planes inclined at a specific angle (inclination angle
	1°-45°) can be processed.
Surface Roughness	Ra≤5Å (5×5µm)
Package	Class 100 clean bag, Class 1000 super clean room