

Lithium Niobate Wafer

(LiNbO₃ Optical Grade)

Lithium niobate (LiNbO₃, LN) is a negative uniaxial crystal and one of the most comprehensively characterized optical materials. The crystal has a wide range of transparency in visible and mid-infrared light and high chemical and mechanical stability which makes it advanced to be used for infrared birefringent material applications.

Product Parameters

Material	Optical Grade LiNbO ₃ wafers (White or Black)	
Curie Temp	1142±2.0°C	
Cutting Angle	X/Y/Z etc	
Diameter/size	2"/3"/4"	
Tol(±)	<0.20 mm	
Thickness	0.18 ~ 0.5mm or customer specific	
Primary Flat	16mm/22mm /32mm	
TTV	<3µm	
Bow	-30<bow<30	
Warp	<40µm	
Orientation Flat	All options available	
Surface Type	Single Side Polished /Double Side Polished	
Polished side Ra	<0.5nm	
S/D	20/10	
Edge Criteria	R=0.2mm or Bullnose	
Optical doped	Fe/Zn/MgO etc for optical grade LN< wafers	
Wafer Surface Criteria	Refractive index	No=2.2878/Ne=2.2033 @632nm wavelength
	Contamination,	None
	Particles ϕ >0.3 µ m	<= 30
	Scratch , Chipping	None
	Defect	No edge cracks, scratches, saw marks, stains

Please contact us for customer specific requirements and questions