



LiAlO₂ Lithium Aluminate :

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LiAlO₂ Lithium aluminate single crystal matches very well to the GaN lattice, so it becomes a potential group III-V nitride film substrate material.

Materials properties:

Main performance parameters	
Crystal structure	the four directions
Lattice constant	a=5.17 Å c=6.26 Å
Melting point (°C)	1900
Density	2.62 (g/cm ³)
Hardness	7.5 (mohs)
Mismatch rate with GaN <001>	1.4%
Size	10x3,10x5,10x10,15x15,20x15,20x20, or customized
	Φ15,Φ20 , Φ1" , Φ2",Φ2.6"
Thickness	0.5mm , 1.0mm
Polishing	Single or double-sided
Crystal orientation	< 100 > < 001 >
Crystal face orientation precision:	±0.5°
Edge orientation precision:	2° (up to 1°)
Slant chip	A wafer that can be tilted at a specific angle (1° -45°)
Ra:	≤5Å (5μm×5μm)
Package	100 clean bag, 1000 ultra-clean room