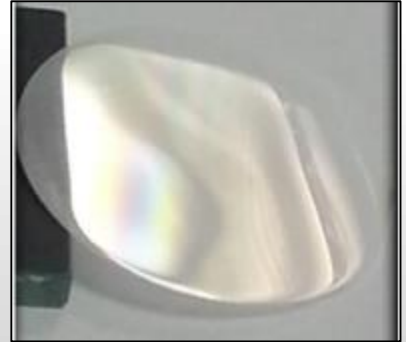




Enabling Materials for Advanced Electronics

AT50-SX

Aluminum Nitride Templates



The AT50-SX is the new generation of AlN templates from Nitride Solutions. Using NSI's proprietary high-temperature production technology, the AT50-SX provides high crystalline quality, low defectivity and excellent thickness uniformity.

Property	Specification
Carrier	Sapphire
Diameter	50.8 mm
Orientation	c-plane (0001)
Major flat	m-plane
AlN thickness	1.3 μm
002 plane rocking curve FWHM	≤ 250 arcsec (wafer average)
102 plane rocking curve FWHM	≤ 550 arcsec (wafer average)
Transmission @ 260nm	$\geq 80\%$
Exclusion zone	≤ 3 mm
AFM surface finish	Epi-ready
Thickness variance (σ/avg)	$< 5\%$
Rear surface finish	Fine ground or polished

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