

# Sapphire

## for Nitride Epitaxy



Wafer Technology is able to offer 2", 3" and 4" sapphire wafers. In addition to prime epitaxy ready wafers for nitride deposition, we can also offer a range of cost effective ground and ready to polish wafer blanks

### Products for Electronic and Optoelectronic Applications

2, 3 and 4 inch C (0001)-plane epi-polished substrates for GaN deposition

3, 4 and 6 inch sapphire electronic substrates for epitaxial and thin film deposition

Epi-polished surface, Ra < 0.2 nm

Precise orientation tolerance up to  $\pm 0.05^\circ$

Off-axis orientation available

High back side roughness uniformity up to  $\pm 0.1 \mu\text{m}$

Single and double side polished

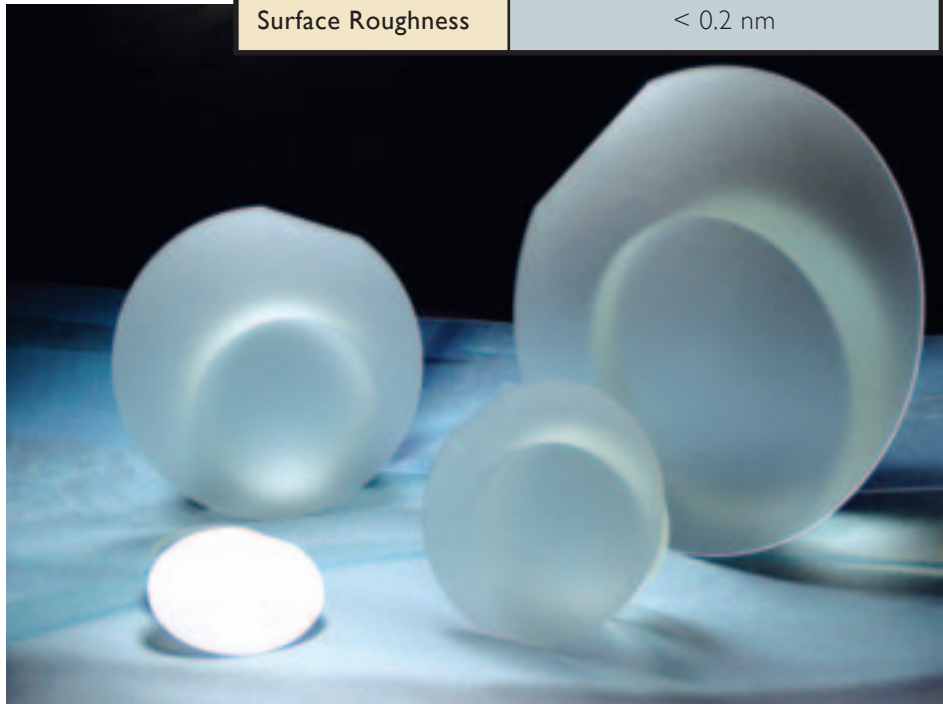
Laser marking upon request

Precise geometry

In addition to standard products, we are also able to offer a range of specialist sapphire products with custom specifications. Please contact us to discuss your requirements



KEY SPECIFICATIONS	
Specification	Tolerance
Orientation	Standard $\pm 0.1^\circ$ , Special to $\pm 0.05^\circ$
Diameter	$\pm 0.05\text{mm}$
Thickness	$\pm 0.025\text{mm}$
Front Surface	Epitaxy-Ready
Backside	Fine ground or optically polished
Flatness	$< 5 \mu\text{m}$ for 2" wafers (other diameters are available)
Surface Roughness	$< 0.2 \text{ nm}$



Sapphire products are supplied by Monocrystal PLC



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