## β-Ga<sub>2</sub>O<sub>3</sub> Single Crystal

Rapid progress in  $\beta$ -gallium oxide ( $\beta$ -Ga<sub>2</sub>O<sub>3</sub>) material and device technologies has been made in this decade, and its superior material properties based on the very large bandgap of over 4.8 eV have been attracting much attention.

 $\beta$ -Ga<sub>2</sub>O<sub>3</sub> appears particularly promising for power switching device applications because of its extremely large breakdown electric field and the availability of large-diameter, high-quality wafers manufactured from melt-grown bulk single crystals.

CasCrysTech provides high-qality  $Ga_2O_3$  substrates/wafers that can be customized at the customer's request.

Dimension (mm*mm)	2 inch and below	5*5-20*20	5*5-20*20	5*5-15*10
Crystal Plane	(100)	(001)	(-201)	(010)
Dopant	Si (N type) or Fe (Semi-insulating)			
Miscut angle ( ° )		<2		
Thickness (µm)		650±50 or Customizable		
Conduction type		N type or Semi-insulating		
Resistivity (Ω·cm)		<100	or >10 <sup>9</sup>	
XRD FWHM (arcsec)		< 150		
Surface Roughness (nm)		<		