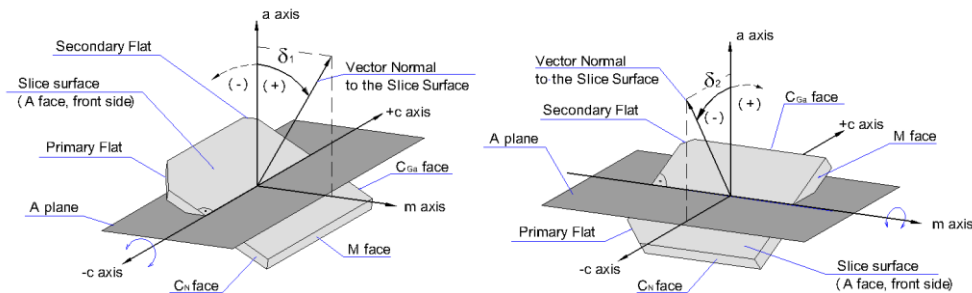


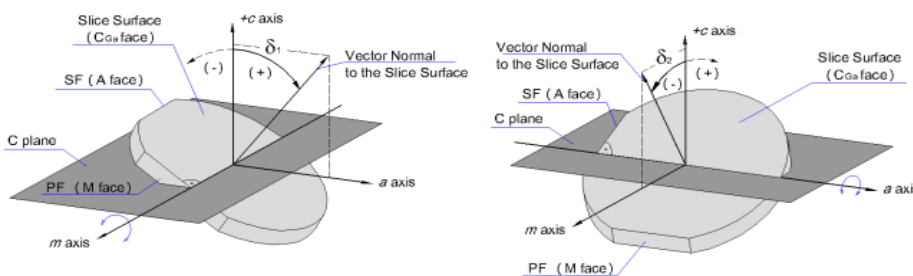
The substrate is sliced from a mono-crystalline bulk material grown by ammonothermal method.

| TECHNICAL SPECIFICATION   |                     |  |
|---|---------------------|--|
| Features  | Units               | Available planes   |
|   |                     | c-plane (0001)   |
| Carrier concentration   | cm <sup>-3</sup>    | -  |
| Dopant  |                     | Manganese-doped (~10 <sup>19</sup> cm <sup>-3</sup> )            |
| Resistivity   | Ωcm                 | >10 <sup>9</sup>   |
| Mobility  | cm <sup>2</sup> /Vs | -  |
| Thickness   | μm                  | 300-400  |
| Total thickness variation (TTV)   | μm                  | ≤40  |
| Bow   | μm                  | ≤10  |
| FWHM (0002) of X-ray rocking curve, epi-ready surface at 100 μm x 100 μm slit | arcsec              | ~20  |
| Dislocation density (EPD)   | cm <sup>-2</sup>    | < 5 x 10 <sup>4</sup>  |
| Misorientation  | deg                 | Od demand  |
| Surface finishing   | Front side          | Mechano-chemically polished (epi-ready RMS < 5 nm)               |
|   | Back side           | Lapped   |
| Available sizes   |                     | 10x10  |
|   |                     | 1-inch   |
|   |                     | 1,5-inch   |
|   |                     | 2-inch   |
| Available grades  |                     | Test grade<br>Production grade<br>Prime grade                    |
| Packaging   |                     | Separate single wafer container                                  |
| Special request   |                     | For pricing or technical enquiries please contact our sales team |

### Square shape



### Round shape



**Note:**

The information given above may be subject to change at any time without notice. This leaflet is not an offer within the meaning of sales or commercial law. The AMMONO-GaN substrates are offered for sale under Ammono's General Terms and Conditions.