Standard specifications of 100 mm β-Ga₂O₃ epitaxial wafer (by HVPE)

Epitaxial layer

Items	Specifications	
Dopant	Si (n-type)	β -Ga ₂ O ₃ epitaxial layer
*A value can be selected in increments of 1×10 ¹⁶ cm ⁻³ .	Specify a value in the range between 1×10 ¹⁶ and 9×10 ¹⁶ cm ⁻³	β -Ga ₂ O ₃ wafer Cross section of β -Ga ₂ O ₃ epitaxial wafer
Thickness *A value can be selected in increments 1 µm.	Specify a value in the range between 5 and 10 µm	
Wafer		
Items	Specifications	
Dopant	Sn (n-type)	IF (001)
Doping concentration	Using the range of $1 \times 10^{18} \sim 2 \times 10^{19} \mathrm{cm}^{-3}$	
Orientation	(001)	
Size	100 mm	OF [100]
Thickness	0.65 mm	Orientation
XRD FWHM	≦350 arcsec	
Off set angle	0°±1°	

1 There are cases in which the other side of OF is chipped (a maximum of around IF width).

2 These products must be used for research and development purposes only.

3 The substrates must not be used as a seed crystal.

4 The specifications are subject to change without notice.

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<u>Standard specifications of</u> 2 inch β -Ga₂O₃ epitaxial wafer (by HVPE)

Epitaxial layer

Items	Specifications	
Dopant	Si (n-type)	β -Ga ₂ O ₃ epitaxial layer
Doping concentration *A value can be selected in increments of 1×10^{16} cm ⁻³ .	Specify a value in the range between 1×10 ¹⁶ and 9×10 ¹⁶ cm ⁻³	β -Ga ₂ O ₃ wafer Cross section of β -Ga ₂ O ₃ epitaxial wafer
Thickness *A value can be selected in increments 1 µm.	Specify a value in the range between 5 and 10 µm	
Wafer		
Items	Specifications	
Dopant	Sn (n-type)	IF (001)
Doping concentration	Using the range of $1 \times 10^{18} \sim 2 \times 10^{19} \mathrm{cm}^{-3}$	
Orientation	(001)	
Size	2 inch	OF [100]
Thickness	0.65 mm	Orientation
XRD FWHM	≤350 arcsec	
Off set angle	0°±1°	
Remarks	T is shipped (a province of around IT width)	

Novel Crystal Technology, Inc.

2023.2.22

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3 The substrates must not be used as a seed crystal.

4 The specifications are subject to change without notice.