

Gallium Antimonide

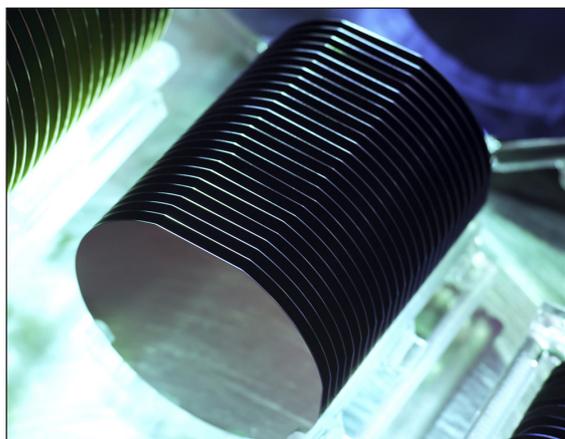
Single Crystal GaSb Substrates

Galaxy Compound Semiconductors, Inc. offers single crystal wafers that are grown by a modified Czochralski method using the highest purity metals.

MECHANICAL SPECIFICATIONS

Gallium Antimonide (GaSb) can be supplied as wafers with as-cut, etched or polished finishes and are available in a wide range of carrier concentration, diameter and thickness.

All Gallium Antimonide wafers are individually laser scribed with ingot and slice identity to ensure perfect traceability.



PACKAGING

Polished Wafers

Coin-style wafer shipper, individually sealed in two outer bags in inert atmosphere. Cassette shipments are available on request.

As-cut Wafers

Cassette shipment (Glassine bag available on request).

Mechanical wafers

Coin-style wafer shipper, individually sealed in one outer bag.

Other forms of packaging are available upon request, please contact us to discuss your requirements.

Wafer Specifications

Diameter Slices	2"	3"	4"
Orientation	(100) ± 0.1°	(100) ± 0.1°	(100) ± 0.1°
	Misorientations up to 10° in any direction are available. For other orientations please ask.		
Diameter	50.5 ± 0.5mm	76.2 ± 0.5mm	100 ± 0.5mm
Flat Option	EJ, SEMI or other	EJ, SEMI or other	EJ, SEMI or other
Flat Orientation Tolerance	± 0.5°	± 0.5°	± 0.5°
Major Flat Length	16 ± 2mm on (0-1-1)	22 ± 2mm on (0-1-1)	32.5 ± 2mm on (0-1-1)
Minor Flat Length	8 ± 1mm on (0-11)	11 ± 1mm on (0-11)	18 ± 1mm on (0-11)
Thickness	500 ± 25µm	625 ± 25µm	1000 ± 25µm

Flatness Specifications

	2"	3"	4"
p-v Front Surface flatness (µm)	<5	<5	<5
Total Thickness Variation (TTV, µm)	<5	<5	<10

Bulk Specifications

Dopant	Type	Carrier Concentration cm ⁻³ at 77K	Mobility cm ⁻² V ⁻¹ s ⁻¹	E.P.D. cm ⁻²
Undoped	p-type	2-3E 16	≥2x10 ²	≤2000
Tellurium	n-type	4x10 ¹² -9x10 ¹⁷	≥2x10 ²	≤1000

Other wafer characteristics are available on request. Please call for details on 509.892-1114 or email info@galaxy.com.



Galaxy Compound Semiconductors, Inc.
9922 East Montgomery Avenue, #7 Spokane, WA 99206
Tel: 509.892-1114 Fax: 509.892-1116
info@galaxywafer.com www.galaxywafer.com



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