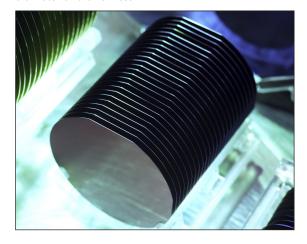
Indium Antimonide

Single Crystal InSb Substrates

Galaxy Compound Semiconductors, Inc. offers single crystal wafers that are grown by a modified Czochralski method from highly purified, zone refined polycrystalline ingots.

MECHANICAL SPECIFICATIONS

Indium Antimonide (InSb) 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.



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"	5 "			
Orientation	(111) A or B, (100) ± 0.1°	(111) A or B, (100) ± 0.1°	(111) A or B, (100) ± 0.1°	(111) A or B, (100) ± 0.1°			
	Misorien	tations up to 10° ir For other orienta	n any direction are a ations please ask.	available.			
Diameter	50.5 ± 0.5mm	76.2 ± 0.5mm	100.00 ± 0.5mm	125.00 ± 0.5mm			
Flat Option	2 flats at 120°	2 flats at 120°	2 flats at 120°	2 flats at 120°			
Flat Orientation Tolerance	± 0.5°	± 0.5°	± 0.5°	± 0.5°			
Major Flat Length	16 ± 2mm on (0-1-1)	22 ± 2mm on (0-1-1)	32.5 ± 2.5mm on (0-1-1)	42.0 ± 2.5mm on (0-1-1)			
Minor Flat Length	8 ± 1mm on (0-11)	11 ± 1mm on (0-11)	18 ± 1mm on (0-11)	25 ± 2mm on (0-11)			
Thickness	625 ± 25µm	800 ± 25μm	850 ± 25µm	900 ± 50μm			

Flatness Specifications							
	2 "	3"	4"	5			
p-v Front Surface Flatness (μm)	<5	<5	<5	<7			
Total Thickness Variation (TTV, μm)	<5	<5	<10	<10			

Bulk Specifications						
Dopant	Туре	Carrier Concentration cm ⁻³ at 77K	Mobility cm ⁻² V ⁻¹ s ⁻¹	E.P.D. cm ⁻²		
Undoped	n-type	8x10 ¹³ -3x10 ¹⁴	≥4x10²	≤50		
Tellurium	n-type	1x10 ¹⁴ -4x10 ¹⁸	≥2x10²	≤50 (≤100 for 5")		

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







