



World Class Germanium Substrates

Sylarus Technologies is the only U.S. owned and U.S. based supplier of epi-ready germanium (Ge) wafers for the space and emerging terrestrial photovoltaic (PV) concentrator market. Germanium-based multi-junction PV systems using 400:1 or greater optical concentration offer the prospect of providing terrestrial power generation at highly competitive levelized cost-of-energy (LCOE) rates. Sylarus supplies low cost, premium quality Ge substrates to meet the world's growing demand.

Sylarus Germanium Specifications

Crystal Pulling Method	Czochralski
Dislocation Density	Zero Dislocation
Doping	Undoped and P-Type
Resistivity	Per Customer Request
Orientation	Per Customer Specification, nominally <100>
Orientation Tolerance	+/- 0.5 degree or Per Customer Specification
Bow and Wrap	<75 μm or Per Customer Specification
TTV	<10 μm or Per Customer Specification
Frontside and Backside Finish	Per Customer Specification
Diameter	100 mm, 150mm others available Per Customer Specifications
Thickness	100 μm or Per Customer Specification



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