



440 Jonathan Willey Road
Belle Vernon, PA 15012 USA

Silicon Ingot Specification Prime Ingots

Crystal Properties:

Crystal Structure:	Multi-crystalline cast silicon ingots
Casting Method:	Directional Solidification System (DSS)
Crystal Defects:	No inclusions visible by naked eye
Cracks and Pin Holes	No cracks or pinholes visible by naked eye

As Cast Geometric Properties:

Nominal Dimensions:	690 mm x 690 mm x 238 mm
Nominal Weight:	265 kg \pm 1 kg

Recommended Minimum Ingot Trim for Usable Bricks/Wafers:

Sides:	10 mm
Bottom:	10 mm
Top:	35 mm

Electrical Properties:

Conduction type:	P-Type, boron doped
Specific resistivity:	min. 0.5 Ω -cm to max. 3.0 Ω -cm
Lifetime:	\geq 1.0 μ s

Chemical Properties:

Oxygen concentration Interstitial:	$\leq 8 \times 10^{17}$ atoms/cm ³
Carbon concentration Substitutional:	$\leq 2 \times 10^{18}$ atoms/cm ³

Packaging and Labels:

Packaging:	Ingots to be packed to prevent damage during shipment
Labels:	Lot number for identification