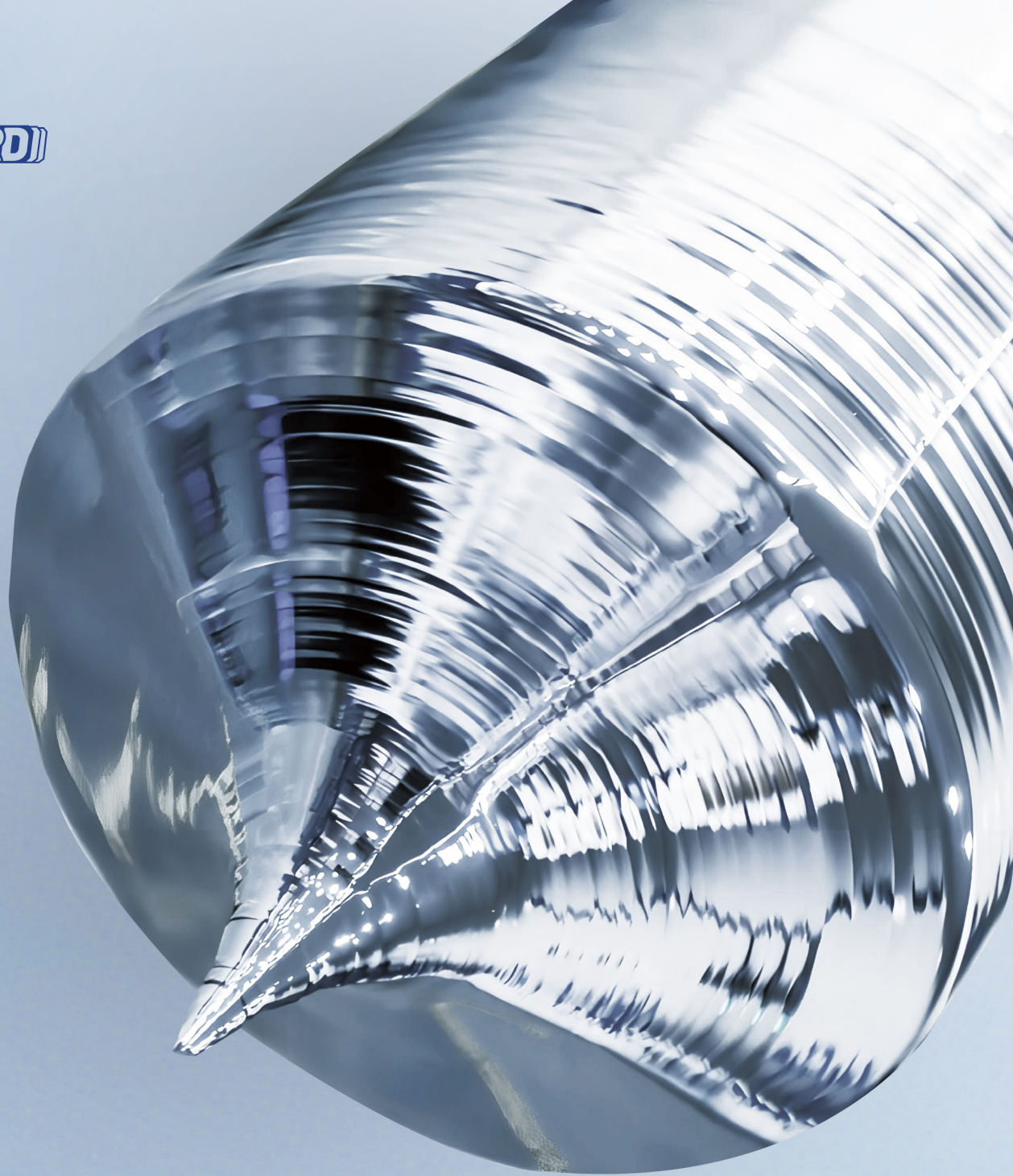


**PTSTANDARD**



# Mono Silicon Rot

Data Sheet

**P-Type** 183.75\*182.2±0.25mm

PT.Standard Energy Indonesia

Email [info@standard-thailand.com](mailto:info@standard-thailand.com)

Web [www.ptstdard-energy.com](http://www.ptstdard-energy.com)

# Mono Silicon Rot

## Data Sheet

**P-Type** 183.75\*182.2±0.25mm

### Material Performance Parameters

Conductivity Type	P	P/N type tester
Doped element	Gallium	/
Crystallinity	Single crystal	Priority etching technology (FSTM F47-88)
Etch pit density (dislocation density)/pcs/cm <sup>2</sup>	≤500	Priority etching technology (FSTM F47-88)
Surface orientation	<100>±3°	X-ray diffractometer
Lateral crystal orientation	<010>, <001>±3°	X-ray diffractometer
Oxygen content (ppma)	≤15	FTIR (ASTM F121-83)
Carbon content (ppma)	≤1	FTIR (ASTM F123-91)
Lifetime (μs)	≥70	BCT-400
Resistivity (Ω.cm)	0.4-1.1	Portable four-probe resistance meter

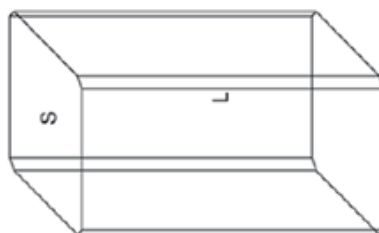
### Geometric Rule Parameters

Chamfered edge shape	Right angle	/
Geometrical margin (mm)	183.75*182.2±0.25	Manual measurement, tool: caliper
Diameter (mm)	φ256±0.25	Manual measurement, tool: caliper
Arc length projection (mm)	1.99±0.5	Manual measurement, tool: chamfer gauge
Perpendicularity	90±0.15°	Manual measurement, tools: right-angle ruler, feeler gauge
Batch Length (mm)	200-900	Manual measurement, measuring tool: straight ruler

### Appearance Quality

	The surface of the crystal rod shall be smooth and bright, free of twins, contamination, holes, color difference, black spots, and water stains residue.	Manual measurement, measuring tool: surface roughness tester
Surface quality	Surface camber ≤ 0.1mm; surface roughness: Ra ≤ 0.2μm; arc roughness: Ra ≤ 0.2μm.	
	The end face slope ≤1mm Chipping at both ends ≤1.5mm Collapse length at both ends ≤1.5mm	Manual measurement, measuring tool: straight ruler

Dimensions



L: 200-900 mm