

# Silicon Wafers



- Totally customized
- Low and medium volumes
- Any diameters from 10 mm to 150 mm
- Any orientations
- Any Thicknesses
- Resistivity from 0.7 mOhm.cm
- TTV < 2  $\mu$ m
- Roughness < 3 Å RMS

Diameter	1 inch (25.4mm)	2 inch (50.8mm)	3 inch (76.2mm)	4 inch (100mm)	5 inch (125mm)	6 inch (150mm)
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Further diameters on request

### Type and dopant

N-type: P (Phosphorus), Sb (Antimony), As (Arsenic)

P-type: B (Boron)

Undoped

### Resistivity

Czochralski (CZ): from 1 mOhm.cm to 150 Ohm.cm

Float Zone (FZ): up to 10K Ohm.cm

### Orientation

Standard Orientation (100) (111)

Optional Orientation (211) (311) (411) (511) (711) (911)  
(110) (210) (310) (510) (910)  
(531) (731)

Accuracy Standard:  $\pm 0.5^\circ$

Option:  $\pm 0.01^\circ$

Off orientation

Up to  $40^\circ$

### Thickness

	1 inch	2 inch	3 inch	4 inch	5 inch	6 inch
Standard ( $\mu\text{m}$ )	250	275	380	525	625	675
Accuracy ( $\pm \mu\text{m}$ )	15	25	20	20	25	25
On request	From 90 $\mu\text{m}$ to 15 mm					
	Accuracy 5 $\mu\text{m}$					

### Surface

As cut	Lapped	Etched	Single Side polished	Double Side polished
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### Additional Specification

	1 inch	2 inch	3 inch	4 inch	5 inch	6 inch
Particle count	10-25	10-25	10-25	<10	<15	<15
TTV Std ( $\mu\text{m}$ )	<10	<10	<10	<10	<10	<10
TTV min SSP ( $\mu\text{m}$ )	5	5	5	5	10	10
TTV min DSP ( $\mu\text{m}$ )	3	3	2	2	3	3
Bow ( $\mu\text{m}$ )	<30	<30	<30	<30	<40	<40
Roughness	On polished surface: <1 nm					
Flatness	On polished surface: <1 $\mu\text{m}$					

