

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 μ m
- Roughness < 3 Å RMS

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Gambetti
Vacuum Technology
and Related Solutions

silicon technologies
SILTRONIX

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°

Thickness

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

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 (μm)	<10	<10	<10	<10	<10	<10
TTV min SSP (μm)	5	5	5	5	10	10
TTV min DSP (μm)	3	3	2	2	3	3
Bow (μm)	<30	<30	<30	<30	<40	<40
Roughness	On polished surface: <1 nm					
Flatness	On polished surface: <1 μm					

