

## Standard Custom Wafers

		1"	2"	3"	4"	6"
Crystal		CZ	CZ	CZ/FZ	CZ/FZ	CZ/FZ
Orientation CZ		100,111,110 211,311,411	100,111,110 211,311,411	100,111,110 211,311,411	100,111,110 211,311,411	100,111
Orientation FZ		Contact Sales	Contact Sales	100,111,110	100,111,110	100,111
Orientation Tolerance	Degree	0.1°	0.1°	0.1°	0.1°	0.1°
Off Orientation	Degree	Any	Any	Any	Any	0-10°
Resistivity CZ As	Ohm cm	0.002-20	0.002-20	0.002-20	0.002-20	Contact Sales
Resistivity CZ Ph	Ohm cm	0.01-25	0.01-25	0.01-25	0.01-25	1-50
Resistivity CZ Sb	Ohm cm	0.006-0.02	0.006-0.02	0.006-0.02	0.006-0.02	Contact Sales
Resistivity CZ Boron	Ohm cm	0.001-50	0.001-50	0.001-50	0.001-50	0.5-50
Resistivity CZ Undoped	Ohm cm	20-500	20-500	20-500	20-500	20-500
Resistivity FZ	Ohm cm	<5000	<5000	<5000	<5000	<5000
Bow	Micron	<10.0	<10.0	<10.0	<10.0	<20.0
Min. TTV	Micron	<1	<1	<1	<1	<1
Thickness	Micron	200-2500	200-2500	200-2500	200-2500	200-1000
Thickness Tolerance	Micron	+ - 15	+ - 15	+ - 15	+ - 15	+ - 15
Minimum Surface Roughness	Angstrom	5	5	5	5	5
Surface Type	SSP,DSP Lapped	SSP,DSP Lapped	SSP,DSP Lapped	SSP,DSP Lapped	SSP,DSP Lapped	SSP,DSP Lapped

## Standard Ultra-Thin ® Wafers

		1"	2"	3"	4"	6"
Crystal		CZ	CZ	CZ/FZ	CZ/FZ	CZ/FZ
Thickness <100>	Micron	10-190	8-190	8-190	8-190	50-190
Thickness <110>	Micron	25-190	25-190	25-190	25-190	Contact Sales
Thickness <111>	Micron	75-190	75-190	75-190	75-190	Contact Sales
Minimum Surface Roughness	Angstrom	5-50	50	50	50	50
Thickness Tolerance	Micron	<15%	<15%	<15%	<15%	<15%
TTV	Micron	<2µm	<2µm	<2µm	<2µm	<2µm

## Full Custom Products

Any 1"-6" wafer or crystal can be made to virtually any specification as a custom order. Also Bonded – (SOI) Wafers are available.

[Bondedwafers.com](http://Bondedwafers.com)