



Silicon Crystal & Compound Semiconductor

↘ FZ Single Crystal Silicon Wafer

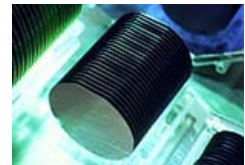
FZ Single Crystal Silicon Wafer, introducing vertical floating zone refining technology, allowing a lower resistivity variation, fewer Oxygen, Carbon or Nitrogen contamination, but much higher surface mechanical strength, which has widely been used for electronic devices fabrication such as, power rectifier, thyristor, GTO, MOSFET, IGBT, etc. N-type conductivity with as-cut, lapped, etched or polished surface finish is available. 2" 3" 4" 5" and 6" can be supplied.



No.	Items	Standard Specifications				
		2"	3"	4"	5"	6"
1	Size	2"	3"	4"	5"	6"
2	Diameter mm	50.8	76.2	100	125	150
3	Conductivity	P/N	P/N	P/N	P/N	P/N
4	Orientation	<100>, <110>, <111>				
5	Thickness μm	180, 279, 381, 425, 525, 575, 675 or as required				
6	Resistivity $\Omega\cdot\text{cm}$	10-20, 40-60, 800-1000, 1000-1400 or as required				
7	RRV max	25%	25%	25%	25%	25%
8	TTV $\mu\text{m max}$	10	10	10	10	10
9	Bow/Warp $\mu\text{m max}$	30	30	30	30	30
10	Carbon Content $\text{a/cm}^3 \text{ max}$	5E16	5E16	5E16	5E16	5E16
11	Oxygen Content $\text{a/cm}^3 \text{ max}$	1E18	1E18	1E18	1E18	1E18
12	Surface Finish	As-cut, L/L, P/E, P/P etc				
13	Packing	Foam box or cassette inside, carton box outside				

↘ FZ Ultra-high Resistivity Single Crystal Silicon Wafer

FZ Ultra-high Resistivity Single Crystal Silicon Wafer is made from extreme purified intrinsic silicon ingot with normally over 10000 $\Omega\cdot\text{cm}$ or even higher resistivity and more than 800 μs carrier lifetime, ideal for production of particular MOS components or photoelectronic devices, and perfect for scientific R&D projects in universities and colleges. 4" 5" 6" are available and can be customized, ingots available too.



No.	Items	Standard Specifications		
		4"	5"	6"
1	Size	4"	5"	6"
2	Diameter mm	100	125	150
3	Conductivity	N	N	N
4	Resistivity $\Omega\cdot\text{cm}$	>10000 or as required		
5	Carrier Lifetime $\mu\text{s min}$	>800, >1000 or as required		
6	Surface Finish	P/E, P/P, L/L, E/E		
7	Packing	Cassette or foam box inside, carton box outside		