

Detailed Specifications of Global/Open Tender Notice No: 15/2014

S. NO	TENDER NO.	BRIEF DETAILS OF ITEM(S)	PAGE NOS.
1.	14-VII/V(2467)14-PB/ T-117	Single Crystal Float Zone Silicon Wafers	2

Detailed Specifications of Single Crystal FZ Silicon Wafers

S No	Parameter	Values			
1	Wafer Diameter (mm)	100	100	150	150
2	Orientation	(100)±0.5	(100)±0.5	(100)±0.5	(100)±0.5
3	Type (Dopant)	n-type (P)	p-type (B)	n-type (P)	p-type (B)
4	Resistivity (Ωcm)	0.5-4.0	0.5-4.0	0.5-4.0	0.5-4.0
5	Minority carrier Lifetime (μs)	≥ 1000	≥ 500	≥ 1000	≥ 500
6	Carbon Content (atoms/cm ³)	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$
7	Oxygen Content (atoms/cm ³)	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$	$< 2.0 \times 10^{16}$
8	Primary Flat (mm)	30-35	30-35	50-60	50-60
9	Secondary Flat (mm)	15-20	15-20	35-40	35-40
10	Thickness (μm)	300 ± 25	300 ± 25	350 ± 25	350 ± 25
11	Surfaces (Polish)	DSP	DSP	SSP	SSP
12	TTV (μm)	≤ 10	≤ 10	≤ 10	≤ 10
13	Bow (μm)	≤ 30	≤ 30	≤ 50	≤ 50
14	Warp (μm)	≤ 30	≤ 30	≤ 50	≤ 50
15	Packing (Wafers/box)	25	25	25	25
	Quantity (Wafers)	200	200	200	200
