

Specification #428: DSP Silicon Wafers

All Parameters Listed in **RED** Are Standard

Diameter: **100.0 ± 0.5 mm**, 150 ± 0.2 mm & 200 ± 0.2 mm
Type/Orientation: N_P, N_{Sb}, N_{As}, P_B / <100> and <111> (neutron doped also available)
Resistivity Range Available: 0.001 Ω-cm - 70,000 Ω-cm

Thickness (mm)	TTV (mm)	Type/Orientation In Stock **	Resistivity Range In Stock **	Standard Packaging
9-11	Experimental			
27 - 33	1, 2	N _P <100>	1 - 10 Ω-cm	UV release membrane
40 - 60	1, 3	N _P <100>	1 - 10 Ω-cm	Single Wafer Hard Case
90 - 100	1, 3	N _P <100>, P _B <100>	1 - 10 Ω-cm	Single Wafer Hard Case
195-205	1, 3	N _P <100>, P _B <100>	1 - 10 Ω-cm	Single Wafer Hard Case
245-255	1, 3	P _B <100>	1 - 10 Ω-cm	Hard Cassettes of 25
295-305	1, 2, 5 or 10	N _P <100>	1 - 10 Ω-cm	Hard Cassettes of 25
395-405	1, 2, 5 or 10	N _P <100>	1 - 10 Ω-cm	Hard Cassettes of 25
495-505	1, 2, 5 or 10	N _P <100>, P _B <100>	1 - 10 Ω-cm	Hard Cassettes of 25
995 - 1005	1, 2 , 5 or 10	ASK	ASK	Hard Cassettes of 25

** - If you do not see it - Ask as our inventory is expanding

Thickness Tolerance: **± 5 mm**, ± 2 μm and ± 1 μm available, ± 25 μm also available for thicknesses ≥260 μm
Orientation Tolerance: **± 1°**, ± 0.5°, ± 0.25° and ± 0.1° available
Primary Flat Orientation: **<110> ± 1°**, ± 0.5°, ± 0.25° and ± 0.1° available
Primary Flat Length: **SEMI Standard for diameter specified**
Second Flat Orientation: **SEMI Standard or better**
Second Flat Length: **SEMI Standard for diameter specified**
Finish Frontside: **Full damage removal polish**
Backside: **Full damage removal polish**
Bow/WARP: **40 mm Max**, 20 typical, 10 and lower available
Laser Mark Options: None, Naked Eyeball visible, Per SEMI Std M1.5-89.
 - Not available on < 150 μm thickness

Standard Package Label Will Identify Specification, Material, and Quantity
Standard Shipment will be accompanied with a Certificate of Conformance to this specification or customer specification

921 La Mesa Drive, Portola Valley, California 94028

MicroFab Technical Sales Engineer:

greg@siwafer.com
Tel: (540) 552-4755
Fax: (540) 552-4757

Southwest Sales:

bobberry@siwafer.com
Tel: (512) 335-2225
Fax: (512) 331-0773

West Coast & International Sales:

richard@siwafer.com
Tel: (650) 494-6851
Fax: (650) 858-2519

East Coast/ Far East Sales:

susan@siwafer.com
Tel: (610) 495-9976
Fax: (610) 495-9978

MicroFab Technical Sales Engineer:

cheryll@siwafer.com
Tel: (530) 587-7510
Fax: (530) 587-8591