

PROCESS BATCH SHEET (Aluminum anneal)

Issue 3

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ENSC Batch No. _____ Wafers Started _____ Date _____
 Material _____ Orientation _____ Size _____ Thickness _____
 Resistivity _____ Type _____
 Wafer Vendor _____ Vendor Batch # _____ SFU P.O. _____

Process Step #	Process Conditions	Oper & Wafer #	Comments
_____A	Furnace setup Set furnace tube 1 or 4 to 475C, with a N2 flow of 10 scfh.		
_____B	Load wafers Load wafers in oxidation boat, facing downstream.		
_____C	Push-in Load wafer boat into oxidation white elephant. Place elephant on furnace tube. Push boat in with correct quartz push rod. You may push a little faster than the usual 4"/min, because of the lower temperature.		
_____D	Ramp None. 475C is the operating temperature for the anneal.		
_____E	Process 30-45 minutes at 475C in 10 scfh N2.		
_____F	Pull-out Place elephant on furnace tube. Pull boat out with correct quartz push rod. You may pull a little faster than the usual 4"/min, because of the lower temp. Replace end cap.		
_____G	Return furnace to idle Set temperature to 400C and N2 flow to about 1-2 scfh.		
_____H	Inspect and measure Visual and electrical tests.		