

### SunStart Nozzle Test S002 vs. S003

#	Tip	0 Hours	10 Hours	20 Hours	30 Hours	40 Hours	50 Hours	60 Hours	70 Hours	80 Hours	90 Hours	100 Hours	110 Hours	120 Hours
1	S003 20040130815	.038"	.039"	.041"	.044"	.046"	.049"	.052"	.056"					
2	S003 20040130815	.038"	.040"	.041"	.043"	.047"	.051"	.054"	.058"					
3	S003 20040130815	.038"	.040"	.042"	.044"	.046"	.050"	.052"	.057"					
4	S002 20040130830	.038"	.039"	.040"	.042"	.043"	.046"	.047"	.049"	.050"	.053"	.055"	.057"	
5	S002 20040130830	.038"	.039"	.040"	.041"	.043"	.045"	.047"	.049"	.051"	.053"	.056"		
6	S002 20040130830	.038"	.039"	.040"	.042"	.043"	.046"	.048"	.051"	.053"	.054"	.058"		

**End of test time and reason**

Nozzle #1 was pulled at 74 hours because it would no longer cut thru the material  
 Nozzle #2 was pulled at 71 hours because it would no longer cut thru the material  
 Nozzle #3 was pulled at 72 hours because the striations were too heavy  
 Nozzle #4 was pulled at 112 hours because it would no longer cut thru the material  
 Nozzle #5 was pulled at 104 because the striations were too large  
 Nozzle #6 was pulled at 107 because it would no longer cut thru the material

**Test Parameters**

Machine: Flow 8x12WMC  
 Pump: 60HP  
 Cutting Head: AccuStream DiaLine  
 Orifice: .013" Diamond  
 Material: 1/2" thick 6061 Aluminum  
 Inspection: every 10 hours of cut time  
 Abrasive: GMA80 @ 1.1lbs/min  
 Measured By: Vermont Gage Class ZZ Gage Set VTG Control #01523051 (Tolerance = +.0002" / -.0000")