

AJA Sputter Target Inventory and Dep. Rates

All dep. rates below refer to 250W, 5 mtorr pressure, 20 sccm flow.

	Material	Material Only?	Cu Backing Plate?	Dep. Rate (Å/min.)	Tested w/ RF or DC?	Special Note
1	Al	Yes	—	100	DC	
2	Al/Si(2%)	Yes	—	100	DC	
3	Al ₂ O ₃	—	Yes	10	RF	
4	Au #1	Yes	—	450	DC	Check out in 1-177
5	Au #2	Yes	—	450	DC	Check out in 1-177
6	Cr	Yes	—	100	DC	
7	Cu	Yes	—	275	DC	
8	Ge	—	Yes	100	RF	
9	ITO #1	—	Yes, 'cup'	150	RF	Typ. Ar:O ₂ =19:1 sccm
10	ITO #2	—	Yes, 'flat'	150	RF	Typ. Ar:O ₂ =19:1 sccm
11	Ni	Yes	—	100	DC	Magnetic, <=0.125"
12	SiO ₂	—	Yes	20	RF	
13	Ta	Yes	—	93	DC	
14	Ti	Yes	—	50	DC	
15	W	Yes	—	120	DC	

Notes on Magnetic Materials in Magnetron Guns

- 1) Fe and its compounds should be purchased no thicker than 0.100" thick. See Kevin for adapter ring (0.150").
- 2) Ni and Cobalt can be purchased at 0.125" thickness and still yield an acceptable sputter rate. See dummy wafer box for 0.125" adapter rings (3).