

# Target for Thin-film Solar Cell

We offer ZnO base target , including AZO, GZO, GAZO. The following table show the comparison of these targets.

Disposition rate of ZnO based targets		
Sputtering condition: 0.3Pa, Ar100%, T-S=60mm, Ts=RT&200°C, DC=300W		
Type	Disposition rate (nm/min)	
	RT	200°C
AZO	83.7	75.7
GAZO	90.4	81.9
GZO	101.3	91.4

The optical properties & resistance of ZnO based					
Thin films (200nm) deposited without heating					
Sputtering condition: 0.3Pa, Ar100%, T-S=60mm, Ts=RT&200°C, DC=300W					
Content	Ga <sub>2</sub> O <sub>3</sub> (wt%)	Al <sub>2</sub> O <sub>3</sub> (wt%)	Sheet resistance (Ω/□)	Thickness (nm)	Resistivity (μΩcm)
5.7 GZO	5.70	0.00	34.8	201.9	703
0.5 GZO	0.50	0.00	137.5	194.7	2680
2 AZO	0.00	2.00	44.7	201.6	902
High GAZO	2027	1.23	36.4	214.5	781
Low GAZO	0.27	76.2	76.2	200.1	1520