

EMPOWERING



SOLAR EFFICIENCY

MODULE MATERIAL

# Al<sub>2</sub>O<sub>3</sub>-ZnO Target : AZO, AZO-H Ga<sub>2</sub>O<sub>3</sub>-ZnO Target : GZO

Sputtering Target for TCO film of photovoltaic solar cell

太陽電池向け透明導電膜用ターゲット

## < Material >

AZO and AZO-H : Al<sub>2</sub>O<sub>3</sub> wt% can be controlled.  
GZO : Ga<sub>2</sub>O<sub>3</sub> wt% can be controlled.

AZO-H, GZO is

- less number of arcing during sputtering times than AZO.
- lower resistivity than AZO.

## < Film >

GZO film is lowest resistivity than AZO and AZO-H

## PRODUCT DESCRIPTION

Applications	Transparent Conductive Oxide films of solar cells Optical films of PDP
用途	太陽電池用透明導電膜 PDP用光学膜

## <材料>

組成変更が容易

AZO-H, GZOは、  
AZOよりアーキングが少ない  
AZOより低抵抗

## <膜>

GZO膜は、AZO膜、AZO-H膜より低抵抗



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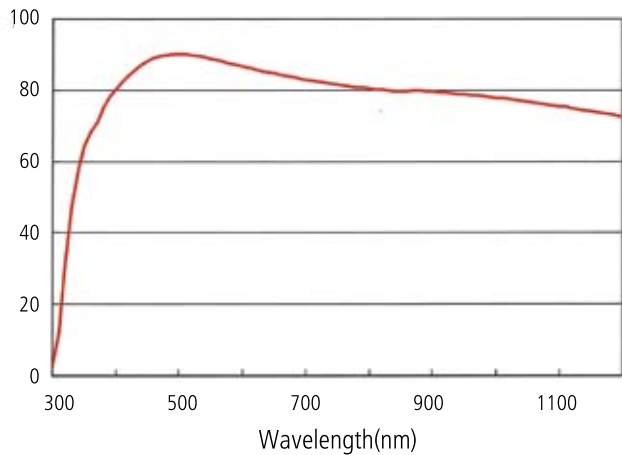
AGCセラミックス株式会社 108-0014 東京都港区芝4-1-23 三田NNビル

<http://www.agcc.jp/>

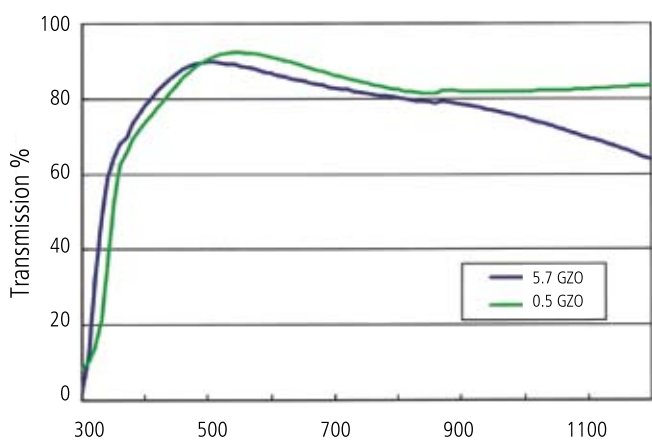
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## Transmission

### AZO and AZO-H



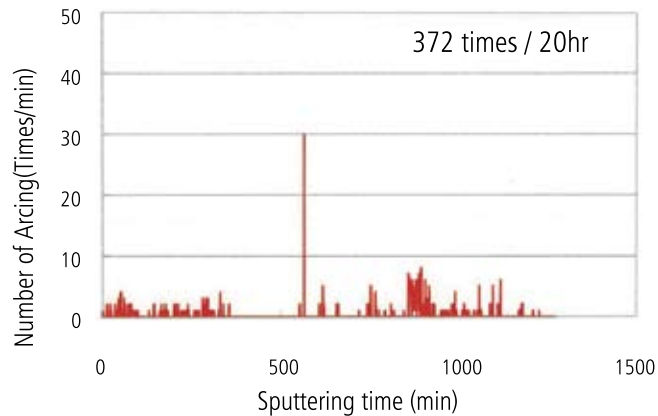
### GZO



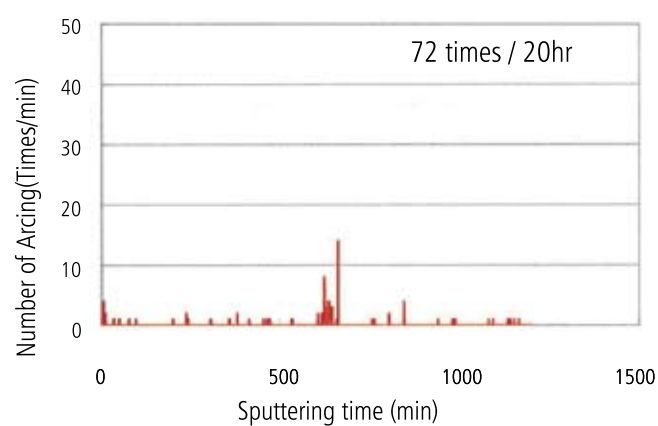
\*) Film thickness of 130nm on the soda glass

## Stability of sputtering times

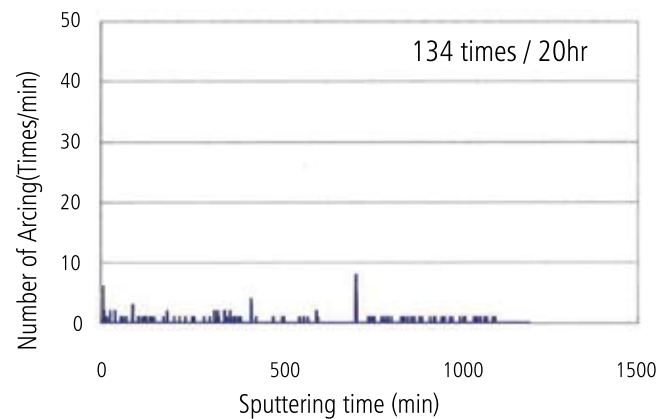
### AZO



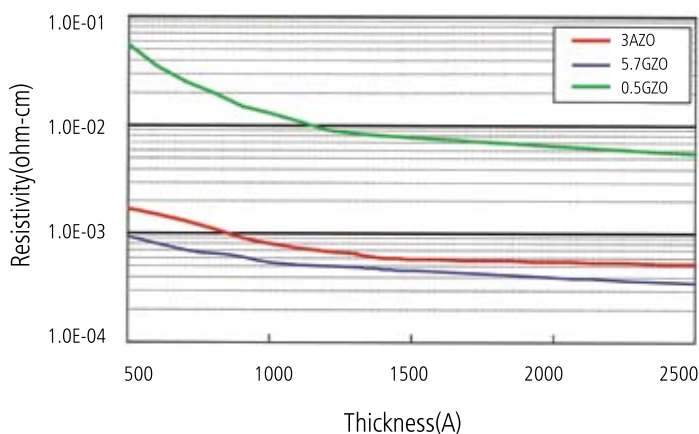
### AZO -H



### GZO



## Electrical property



\*) Films were deposited on the glass at 200°C.