

## PRESS RELEASE

### Sputtering Materials, Inc. Announces SEM/EDS Analytical Results on CIG Planar Targets

RENO, NV – September 11, 2008 – Sputtering Materials, Inc., (SMI) a leading innovator of CIG thin film PVD target material development and joining technologies, today announced it is now offering high density (99%+) CIG planar targets for thin film solar manufacturers. SMI's research and development experience with CIG and CIG doped rotatable PVD target materials paved the way to offer high performance planar CIG targets.

Casted targets offer high density material that enable technicians greater control and better material utilization. "The experience we have gained developing CIG PVD targets over the past 3 and a half years has given us valuable experience that helped refine our planar targets into the industry leading quality material that thin film CIGS manufacturers can depend on," said Greg Howard, Vice President of Sputtering Materials, Inc. Planar target sizes range from 2" dia to 6" dia and up to 6" x 6" tile casting for multi-tile CIG target assemblies. SMI can also provide larger custom sizes on a development basis. Below is typical SEM/EDS image of SMI's casted planar CIG target material.

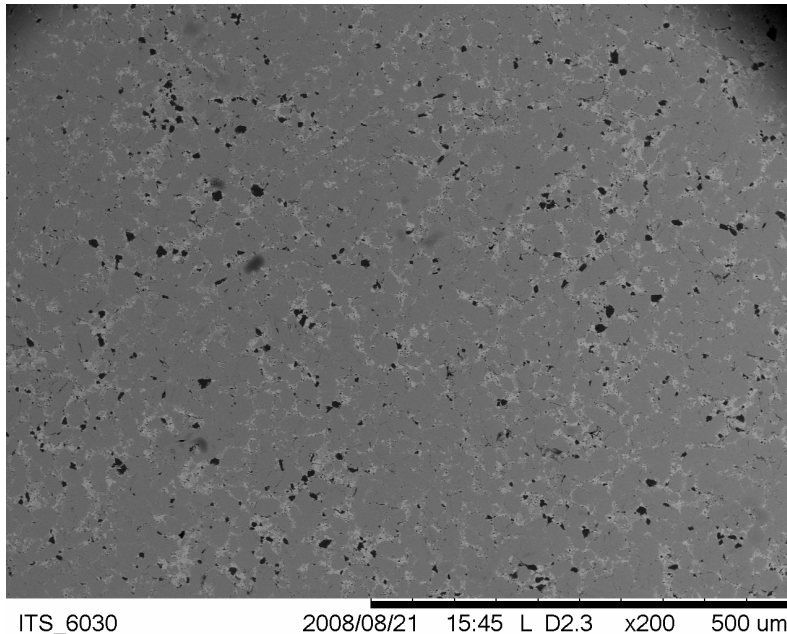
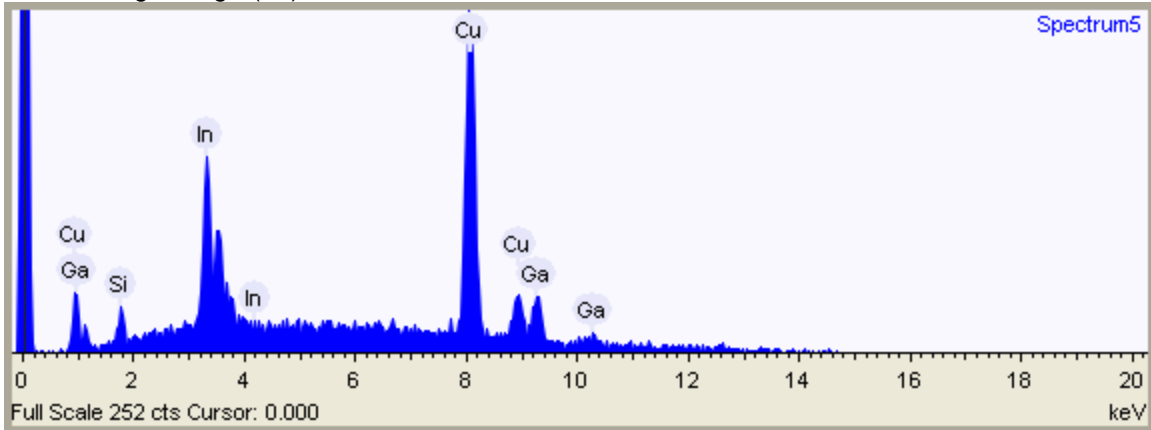


Image: SEM/EDS (Area) Image of Casted CIG Planar Target with 500 micron scale.  
*Note: the black specks in the image are Silicon media used in sample preparation.*

### Acquisition conditions

Acquisition time (s) 50.0  
Process time 4  
Accelerating voltage (kV) 15.0



### Quantification Settings

Quantification method All elements (normalized)

### Summary results

Element	Weight %
Silicon	2.8
Copper	39.7
Gallium	10.5
Indium	47.0

With over 3 years of research and development experience in creating a process for casting CIG and CIG doped targets for research and production, SMI is also working on similarly difficult alloys to cast.

For more information on CIG casting services or IP licensing, please contact Sputtering Materials, Inc. at 775-787-6700

Media Contact:  
Greg Howard  
775-787-6700

About Sputtering Materials, Inc.

Sputtering Materials, Inc. is an industry leader in PVD materials and R&D. SMI is committed to enabling the thin film solar industry with the target materials required for successful production of solar cells. More information can be found at

[www.sputteringmaterials.com](http://www.sputteringmaterials.com)