



**MATERION**



**ADVANCED MATERIALS GROUP**

**EVAPro<sup>®</sup> Grade Gold  
Evaporation Sources**

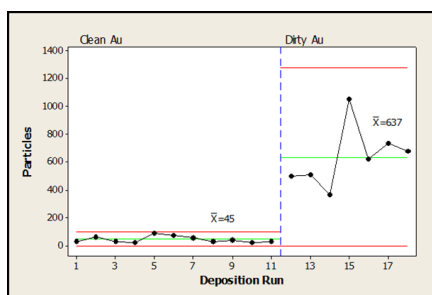
# EVAPro® Grade Gold For Evaporation Sources

Materion Advanced Materials Group is an industry leader in producing superior quality products for thin film deposition markets and one of the largest manufacturers of evaporation gold products. EVAPro® grade gold evaporation materials were specifically developed for the most demanding evaporation processes. This is especially critical where yield and performance are highly sensitive to defects caused by melt instabilities.

## FEATURES

### Reduced Spitting

EVAPro® grade gold reduces particle counts on evaporated films by up to 10x compared to industry standard gold products.



Reduced particle count associated with EVAPro® grade gold versus current industry standard.

### Reduced Yield Loss

Wafer losses are reduced by up to 4X.

### Reduced Batch-to-Batch Variability

Lower variations in evaporation characteristics between batches ensure a dependable deposition performance.

### Extended Charge Life

EVAPro® gold reduces the need to replace evaporation sources due to contamination build-up.



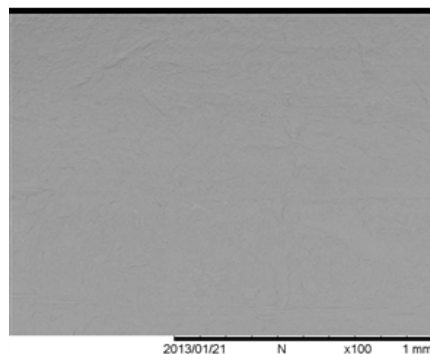
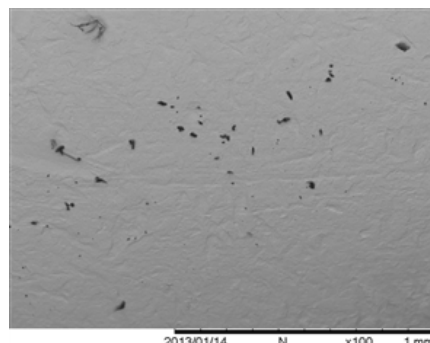
### Forms Available

Shot, wire, and slugs\*

\* Available slug sizes include 0.125"x0.125" (3mmx3mm), 0.250"x0.250" (6mm x 6mm) and 0.5"x0.5" (13mmx13mm).

### Cleanliness and Consistency

Our tightly controlled processes during refining, packaging and inspection result in industry-leading product cleanliness, consistency and purity.



Micrographs comparing the cleanliness of EVAPro® grade gold to current industry standard evaporation material.

## APPLICATIONS

Processes where EVAPro® gold products have found to be highly beneficial include: the manufacture of Wireless, MEMS, Medical, LED, Semiconductor and Optical devices.

EVAPro® gold has demonstrated its ability to reduce spitting and defect formation in both electron beam evaporation, as well as during thermal evaporation processes.



MATERION

DATA SHEET

## BENEFITS

- Over 100 years of experience in precious metal refining and recycling.
- Certified conflict-free gold smelter since February 2013.
- Vertically integrated precious metal recovery and refining capabilities.
- Reduced total cost of precious metal ownership by combining our high purity products and support services.
- Supplemental services including precious metal reclaim, precision parts cleaning and precious metal management.

## Material Specifications\*

|                          |   |
|--------------------------|---|
| <b>Industry Standard</b> | <ul style="list-style-type: none"> <li>Up to 5N purity</li> <li>Poor spit performance</li> </ul>      |
| <b>EVAPro® III</b>       | <ul style="list-style-type: none"> <li>4N, 4N5, 4N8, 5N</li> <li>Improved spit performance</li> </ul> |
| <b>EVAPro® IV</b>        | <ul style="list-style-type: none"> <li>Only 5N grade</li> <li>Superior spit performance</li> </ul>    |

## ADVANCED MATERIALS GROUP

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