

### Gold (Au) Evaporation Pellets

|                                     |                            |                                            |                                               |
|-------------------------------------|----------------------------|--------------------------------------------|-----------------------------------------------|
| Material Type                       | Gold                       | Z Ratio                                    | 0.381                                         |
| Symbol                              | Au                         | E-Beam                                     | Excellent                                     |
| Atomic Weight                       | 196.966569                 | Thermal Evaporation<br>Techniques          | Boat: W*** Mo*** W                            |
| Atomic Number                       | 79                         |                                            | Crucible: Al <sub>2</sub> O <sub>3</sub> , BN |
| Color/Appearance                    | Gold, Metallic             | E-Beam Crucible Liner<br>Material          | Fabmate®, Tungsten                            |
| Thermal Conductivity                | 320 W/m.K                  |                                            | 10-8: 807                                     |
| Melting Point (°C)                  | 1,064                      | Temp. (°C) for Given Vap.<br>Press. (Torr) | 10-6: 947                                     |
| Coefficient of Thermal<br>Expansion | 14.2 x 10 <sup>-6</sup> /K |                                            | 10-4: 1,132                                   |
| Theoretical Density (g/cc)          | 19.3                       | Purity:                                    | 99.99% 99.999%                                |