

## Aluminum (Al) Evaporation Crimps

|                                  |                            |                                            |                          |
|----------------------------------|----------------------------|--------------------------------------------|--------------------------|
| Material Type                    | Aluminum                   | Z Ratio                                    | 1.08                     |
| Symbol                           | Al                         | E-Beam                                     | Excellent                |
| Atomic Weight                    | 26.9815386                 | Thermal Evaporation Techniques             | Basket: W                |
| Atomic Number                    | 13                         |                                            | Crucible: TiB2-BN, BN    |
| Color/Appearance                 | Silvery, Metallic          | E-Beam Crucible Liner Material             | Fabmate®, Intermetallic  |
| Thermal Conductivity             | 235 W/m.K                  | Temp. (°C) for Given Vap. Press.<br>(Torr) | 10-8: 677                |
| Melting Point (°C)               | 660                        |                                            | 10-6: 821                |
| Coefficient of Thermal Expansion | 23.1 x 10 <sup>-6</sup> /K |                                            | 10-4: 1,010              |
| Theoretical Density (g/cc)       | 2.7                        | Purity:                                    | 99.99%, 99.999% 99.9999% |