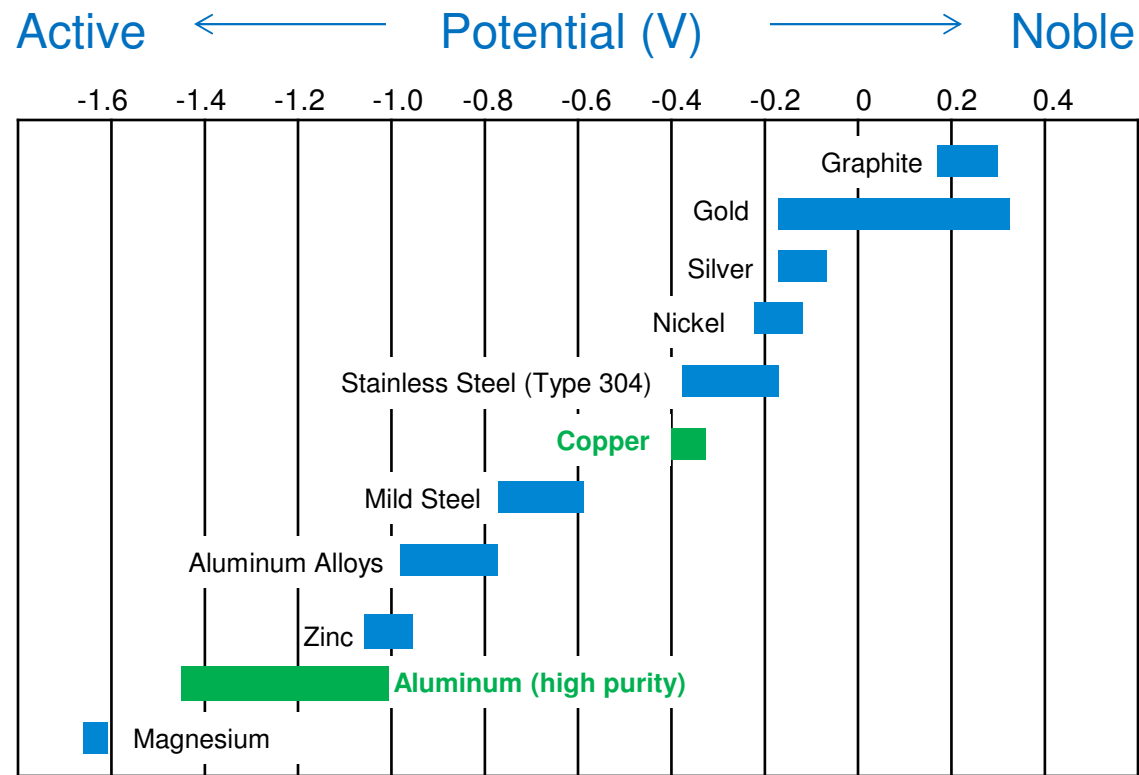


Copper – Aluminum Dovetail Clad[™]

Corrosion Considerations

Cu/Al Corrosion

The laws of electrochemistry/physics are not changed with dovetail clad. The potential for corrosion exists whenever and however copper and aluminum are in physical contact AND an electrolyte is present.



Potential when exposed to Silver Chloride electrolytes

Cu/Al Corrosion

Why Dovetail is the best approach:

- The vast majority of the joint is internalized, ie. not exposed.
- The joint is always where you design it, therefore easily positioned in a protected location.
- The joint is smooth; therefore, coating techniques are very effective.
- Bolting and ultrasonic joining create the same electrochemical potential -- but the irregular, high surface area joint is much harder to protect.

