



MATERION



High Temperature Stability
High Vibration and Fatigue Strength
Superior Weld Strength and Reliability

COPPER ALUMINUM INLAY CLAD METALS For Electric Vehicle Battery Technologies

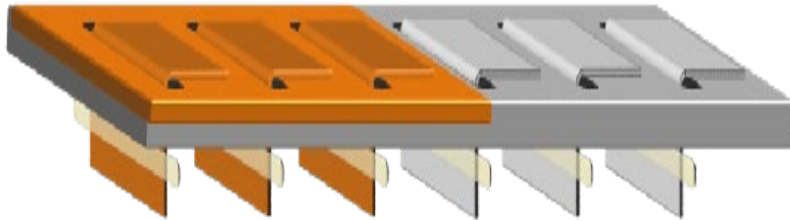
COPPER ALUMINUM INLAY CLAD METALS

Materion has 30+ years of copper and aluminum cladding expertise for automotive applications. Our materials provide unmatched electrical, thermal and fatigue performance.

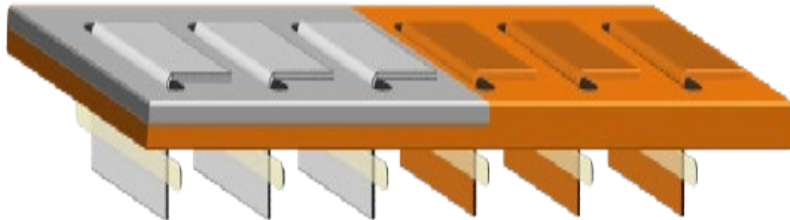
THICK INLAY CLAD SOLUTIONS

Thick inlays provide a reliable bus bar solution for partial penetration laser welding. Now we offer thick inlays that are up to 50% of the base metal thickness.

COPPER CLAD ALUMINUM



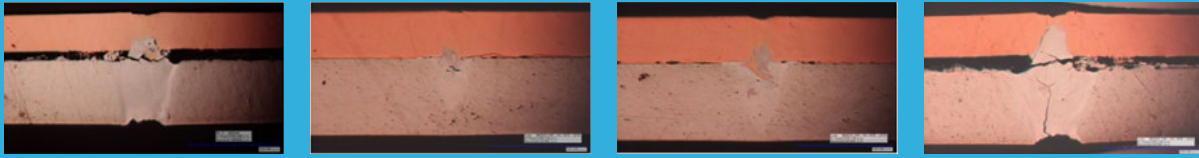
ALUMINUM CLAD COPPER



DESIGN OPTIONS

Work with our cladding team to create a thick-inlay clad metal solution that meets your exact specifications: www.materion.com/dovetail.

CHALLENGES OF MIXED METAL LASER WELDING

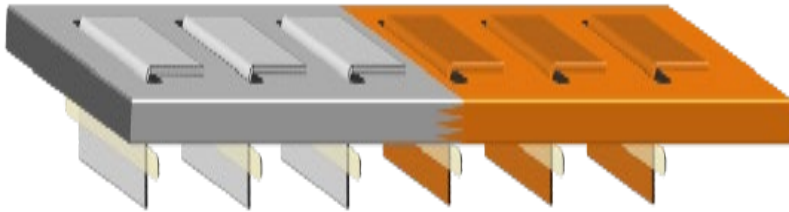


Laser welding Cu to Al can result in weak, brittle welds.

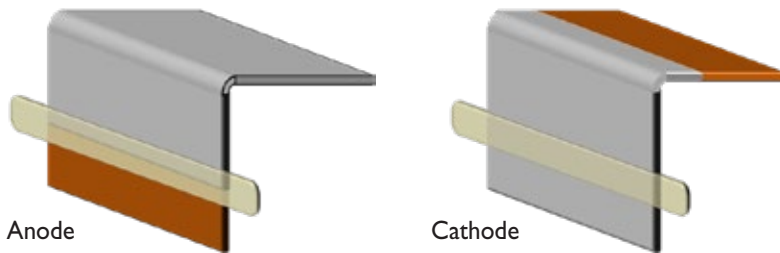
COPPER-TO-ALUMINUM DOVETAIL CLAD[®] SOLUTIONS

Same-metal laser welding can be achieved with Dovetail Clad metal for bus bar or pouch cell lead tabs. It provides low electrical resistance and high joint strength.

DOVETAIL CLAD BUS BAR



DOVETAIL CLAD POUCH CELL LEAD TABS



For more about Dovetail Clad metal
visit www.Materion.com/Dovetail or call +1 800.375.4205



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