



Clad Solutions for Electrodes

ELECTRICAL TRANSITION JOINTS

Aluminium-copper transition joints are the easiest and most cost-efficient solution for joining copper to aluminium on cathode heads. This solution can allow you to:

- Produce and maintain your cathodes locally
- Reduce the total cost of cathode maintenance
- Improve delivery time and reduce buffer stock
- Increase performance

EXPERIENCE

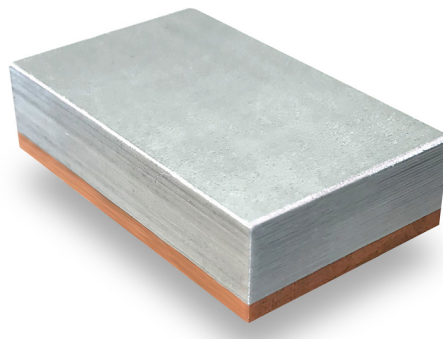
Our customer experience list is growing and today comprises:

- Glencore (AdZ, CeZinc)
- Nyrstar (Auby, Budel, Balen)
- Boliden (Odda)
- Met-Mex
- Grupo Mexico
- Toho

PROCESS

NobelClad is the world leading company in the multi-metal transition joints business. Our unique solid state welding processes are certified as per AWS and EN-ISO and ensure:

- Atomic bond with interdiffusion
- Optimal electrical conductivity
- Corrosion resistance



Left: Aluminium to copper bars

GENERAL SPECIFICATION

01 Scope

This general specification covers aluminium to copper transition joint composite metal products made by the explosion welding or roll bond process.

02 Composition

Copper

- Standard 102 OFC (Alternatively 110 ETP or 101 OFHC)

Aluminium

- Al1050 (Alternatively Al100)

03 Tolerances on Thickness, Width and Length

+/-0.5mm

04 Surface Roughness

Standard Ra < 10µm

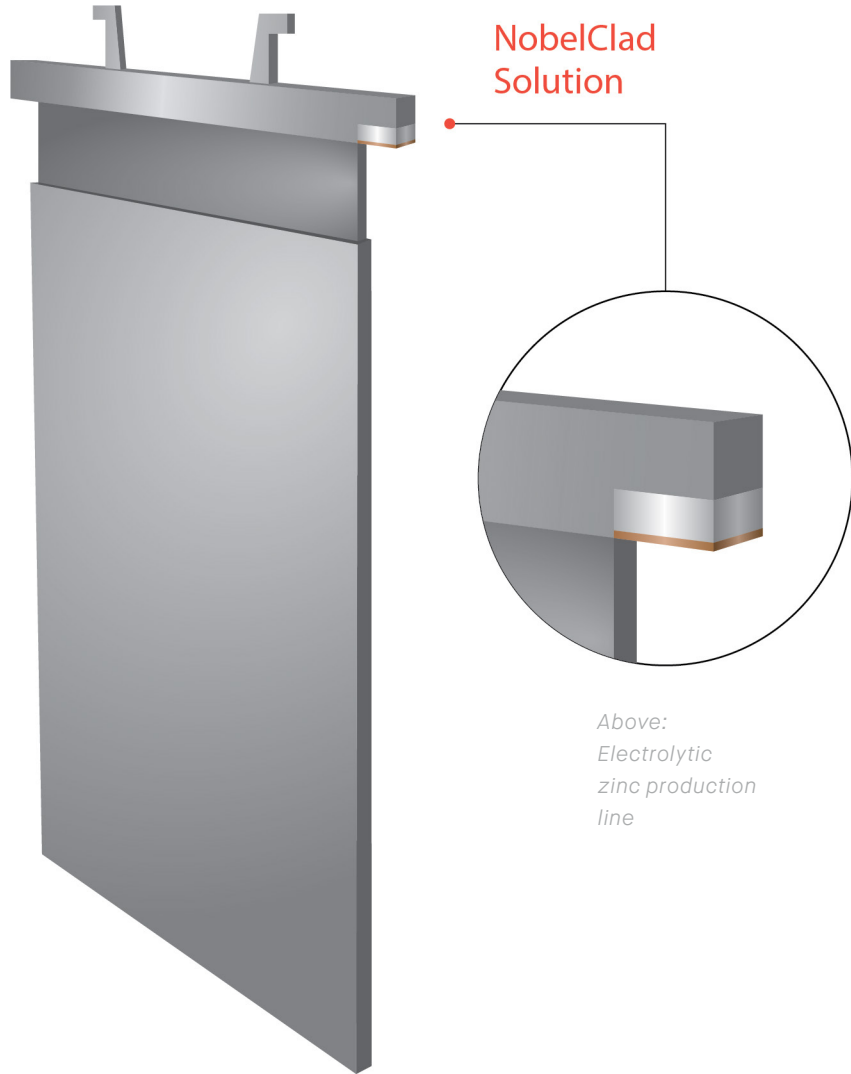
05 Test Certificate

A Certificate of Conformance shall be supplied.

CURRENT STANDARD REFERENCES

NobelClad delivers tailored material and fast delivery available from stock. Standard dimensions off the shelf include:

- Width (W) from 21 to 33 mm
- Length (L) from 40 to 65 mm
- Copper thickness 3, 6, 8 and 12 mm
- Aluminium thickness 5, 10, 12, 16, 20 mm



NobelClad is here to help cut maintenance costs while enhancing electrical efficiency. Contact us today.