



# 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

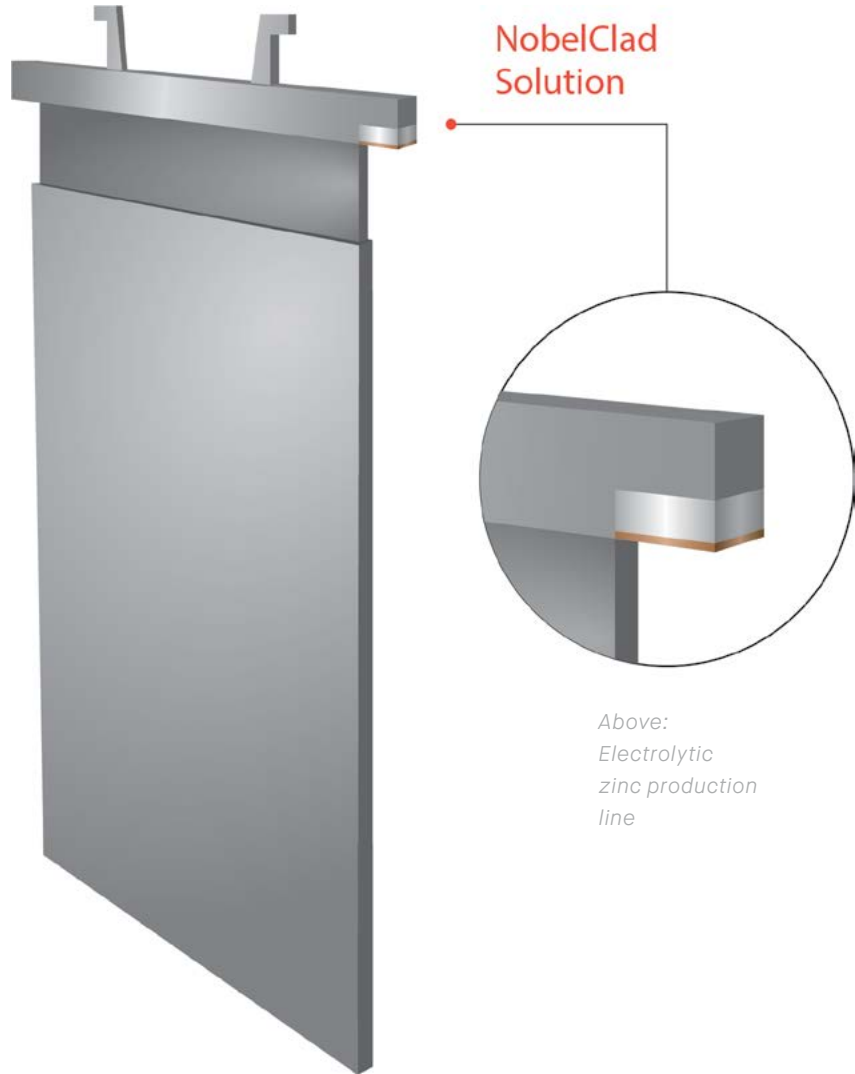
**05 Test Certificate**

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 Solution

Above:  
Electrolytic  
zinc production  
line

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