

# AURUNA® 530 Gold Cobalt Electrolyte

Electrolyte for abrasion-resistant, low-corrosion hard gold layers

AURUNA® 530 is a weakly acidic hard gold electrolyte with high current efficiency. Its essential property is its high resistance to abrasion and corrosion.

By choosing advantageous operating conditions (pH-value and temperature), printed circuit boards can be treated in a way which is particularly friendly to resists and lacquers, thus avoiding the lifting of masking materials.

With a gold content of at least 3 g/l, the desired high current efficiency can be reached even with sensitive resists. The plating speed is approx. 0.29 µm/min at 1 A/dm<sup>2</sup> and 35 °C.



## Electrolyte characteristics

Electrolyte type	Weakly acidic
Metal content	4 (3 - 6) g/l Au
pH value	4.0 (4.0 - 4.4)
Operating temperature	35 °C
Current density range	0.8 A/dm <sup>2</sup>
Plating speed	0.1 - 0.5 µm/min
Anode material	Pt-Ti (type PLATINODE® Pt/Ti)

## Coating characteristics

Coating	Gold-cobalt
Alloy composition	99.7 wt.% Au, 0.3 wt.% Co
Colour of deposit	Yellow
Brightness	Semi-bright
Hardness	Approx. 170 HV

## Advantages

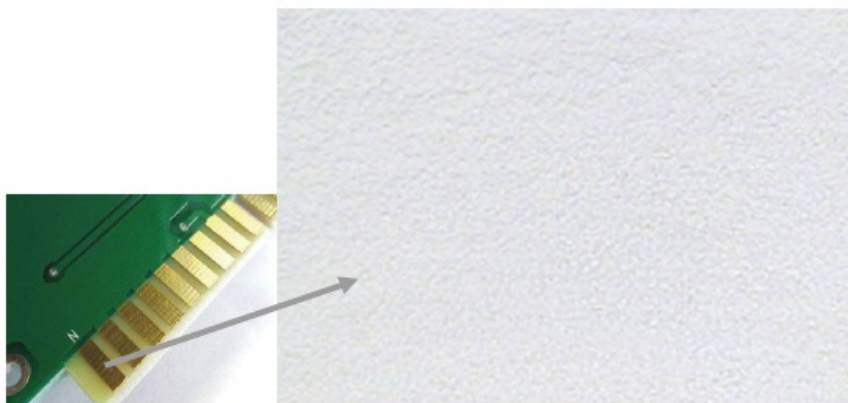
- Weakly acidic hard gold electrolyte based on gold-cobalt with high current efficiency
- Good compatibility with resists, like dry film and soldermask
- Low contact resistance
- High abrasion resistance
- Good thickness distribution
- Easy maintenance and high stability of the electrolyte
- Low-pore layers with good corrosion resistance

## Applications

- Contacts on plug-in cards
- Printed circuit boards

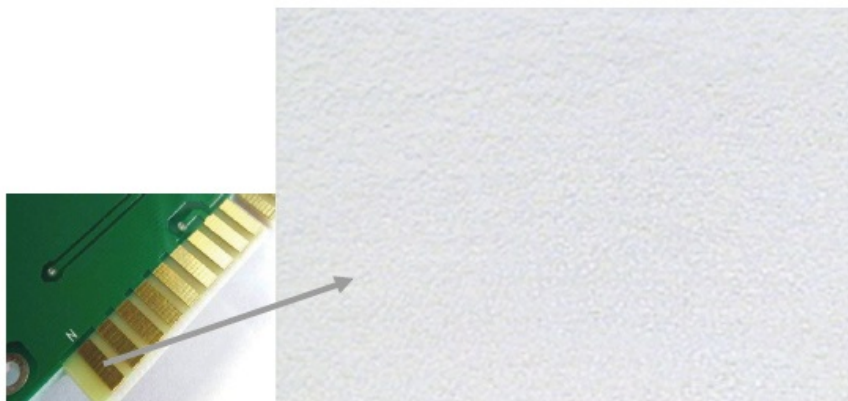
### Corrosion Resistance Test AURUNA® 530

#### Before test



NAV-Test, 1 h, 25 °C on production board. No pin holes found.

#### After test



## Your contact person



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