

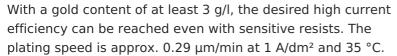


# AURUNA® 530 Gold Cobalt Electrolyte

# 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.





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/dm²
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 Semi-bright
Hardness	Annroy 170 HV

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Density of the coating

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Approx. 18 g/cm<sup>3</sup>

# **Advantages**

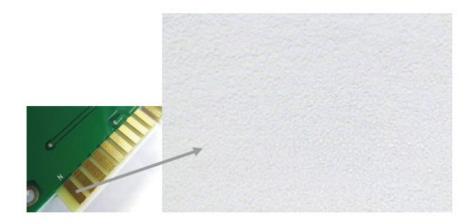
- Weakly acidic hard gold electrolyte based on gold-cobalt with high current efficiency
- Good compatibility with resists, like dry film and soldermask
- Low contact resistance
- High abrasion resistance
- Good thickness distribution
- Easy maintenance and high stability of the electrolyte
- Low-pore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

# **Applications**

- Contacts on plug-in cards
- Printed circuit boards

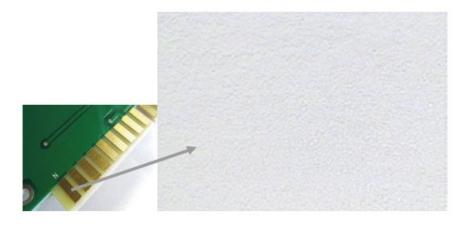
#### Corrosion Resistance Test AURUNA® 530

#### Before test



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

#### After test



### Your contact person



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