

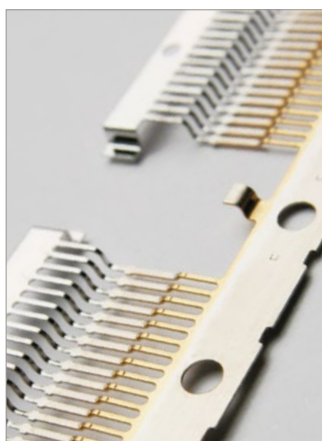


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AURUNA[®] 7000

GOLD IRON ELECTROLYTE



High-Speed Electrolyte for Hard Gold Deposition

AURUNA[®] 7000 is used for depositing hard gold coatings in special high-speed equipment. The weakly acidic electrolyte has a wide operating range with easy bath maintenance and high plating speed. No oxidation of the alloy partner iron.

AURUNA[®] 7000 was specifically developed for the automatic high-speed gold-plating in equipment for selective plating and continuously working reel-to-reel lines. Due to vigorous electrolyte agitation (flow, spray), it allows the working at high current densities with stable long-time behaviour. It can be also operated as a gold strike electrolyte.

The deposits are solderable, low in pores, ultra-bright, hard and abrasion-resistant. They have a constantly low contact resistance. Therefore the electrolyte is excellently suitable for the gold-plating of electronic components such as connectors, contacts and edge connectors on printed circuit boards.



Advantages

- For use in high-speed equipment
- No oxidation of the alloy partner iron
- High plating speed
- Low-pore, solderable, hard and abrasion-resistant coatings
- ASTM B-488-01, Type I-II, Code C-D
- The coatings are RoHS compliant

Applications

- Connectors
- Electrical contacts
- Edge connectors of printed circuit boards

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TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Weakly acidic
Metal content	12 (2 - 18) g/l Au
pH value	4.2 - 4.6
Operating temperature	55 (45 - 60) °C
Current density range	2 - 40 A/dm ²
Plating speed	0.3 - 8.0 µm/min
Anode material	Pt-Ti (type PLATINODE® Pt/Ti)

Coating characteristics	
Coating	Gold-Iron
Alloy composition (according to ASTM B 488-01, Typ I-II, Code C-D)	Approx. 99.7 wt. % Au 0.1 - 0.4 wt. % Fe
Colour of deposit	Yellow
Brightness	Ultra-bright
Hardness of deposit HV 0.015 (Vickers) approx. values	170 - 200 HV
Max. coating thickness	10 µm
Density of the coating	Approx. 17 g/cm ³

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation?
Our specialist will be happy to help you with any technical questions you might have.



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