

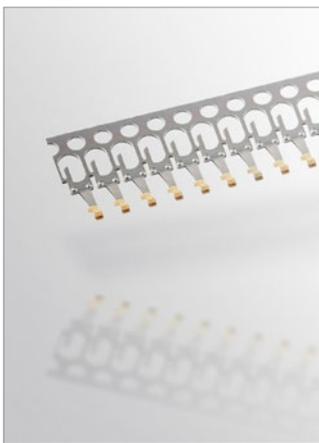


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# AURUNA<sup>®</sup> 8000

## GOLD-IRON HIGH-SPEED ELECTROLYTE



### Sustainable high-speed hard gold plating

AURUNA<sup>®</sup> 8000 is an innovative gold-iron high-speed electrolyte that combines high process speed with excellent coating quality and is completely nickel- and cobalt-free. Sustainable hard gold plating in high-speed systems and for brush applications is therefore no longer a contradiction in terms.

The electrolytic process enables low-porosity, extremely wear-resistant hard gold coatings with a fineness of around 99.7% and a hardness of approximately 130 HV. The coatings thus comply with ASTM B-488-01: Type I, Code C and are also suitable for demanding technical applications.

AURUNA<sup>®</sup> 8000 is a future-proof, sustainable alternative that does not require any adaptation of existing process landscapes. The possible use of AURUNA<sup>®</sup> Inhibitor 2, which enables gold savings of up to 15% in selective applications by minimizing the run-off zone, also makes AURUNA<sup>®</sup> 8000 economically attractive, especially in times of high gold prices.



### Advantages

- Weakly acidic high-speed electrolyte
- High deposition speed
- Low-porosity, wear-resistant coatings
- Classification according to ASTM B-488-01: Type I, Code C
- Extended operating range
- Simple electrolyte maintenance
- Stable long-term behavior
- Gold savings of up to 15% through the use of inhibitors

### Applications

- Connectors
- Electrical contacts
- Connector strips on printed circuit boards

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## GOLD-IRON HIGH-SPEED ELECTROLYTE

### TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Weakly acidic
Metal content	12 g/l, range 2 – 30 g/l
pH value	4.2 – 4.6
Operating temperature	45 – 65 °C
Current density range	Depends on plant type and reachable electrolyte agitation
Plating speed	approx. 8 µm/min

Coating characteristics	
Coating	Gold-Iron
Purity	Approx. 99.7 wt.% AU Approx. 0.3 wt.% FE
Colour of deposit	Yellow
Contact transition resistance	<5 mΩ at 50 cN test force
Hardness	Approx. 130 HV
Density of coating	Approx. 17 g/cm <sup>3</sup>
Classification according to ASTM B-488-01	Type I Code C

### 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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