

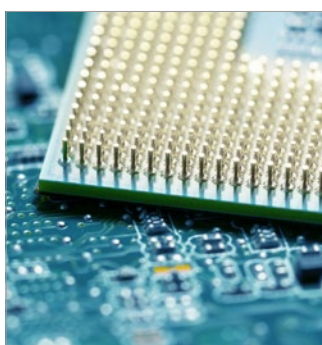


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AURUNA[®] 3408

CYANIDE-FREE GOLD COPPER ELECTROLYTE



Cyanide-free gold-copper electrolyte with exceptionally high purity

AURUNA[®] 3408 is a cyanide-free gold-copper electrolyte whose gold layers are characterized by an exceptionally high fine gold content of approximately 99.7%. Despite this high purity, the layers exhibit impressive mechanical stability, with a hardness of up to 180 HV according to Vickers. Thanks to the low internal stresses, layer thicknesses of up to 10 micrometers are possible without cracking or delamination. The deposited layers are highly bright and light yellow, making them ideal for high-quality, elegant decorative surfaces. Particularly noteworthy is the excellent corrosion resistance, which ensures long-term performance in functional technical applications even under demanding conditions.

AURUNA[®] 3408 does not contain any questionable grain refiners such as arsenic, thallium, lead, cadmium, cobalt, or tellurium. This means that the electrolyte is not only non-toxic, but can also be used worldwide without restrictions – a clear advantage for environmentally conscious production processes. In addition, the electrolyte can be refreshed with supplementary solutions, avoiding the need for a complete replacement and conserving resources.

The coating process can be carried out flexibly using rack or barrel methods, enabling a wide range of applications – the electrolyte can even be used in printed circuit board manufacturing. AURUNA[®] 3408 thus combines maximum material purity, technical performance, and environmental friendliness in one product – a forward-looking solution for modern surface technology.

Advantages

- Cyanide-free gold-copper electrolyte
- Exceptionally high fine gold content (approx. 99.7%)
- Very good mechanical stability
- Low internal stresses
- Crack-free layers up to 10 µm
- High-brightness, light yellow layers
- Very good corrosion resistance
- Non-toxic and therefore suitable for use worldwide without restrictions
- Rack or barrel operation

Applications

- Jewelry
- Spectacle frames
- Watches
- Printed circuit boards
- Connectors

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CYANIDE-FREE GOLD-COPPER ELECTROLYTE

TECHNICAL SPECIFICATIONS

Electrolyte characteristics		Coating characteristics	
Electrolyte type	neutral	Coating	gold copper
Metal content	5 (4 - 6) g/l Au 15 (10 - 20) mg/l Cu	Purity	approx. 99.7 wt.% Au approx. 0.3 wt.% Cu
pH value	8.2 (8.0 - 8.4)	Colour of deposit	light yellow
Operating temperature	65 (60 - 70) °C	Hardness of deposit	approx. 180 HV
Current density range	0.3 (0.1 - 0.5) A/dm ²	Max. coating thickness	approx. 10 µm
Plating speed	approx. 0.18 µm/min at 0.3 A/dm ²	Density	approx. 19 g/cm ³
Deposition rate	approx. 116 mg/Amin at 0.3 A/dm ²		

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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