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# AURUNA<sup>®</sup> 503

## ROSE GOLD ELECTROLYTE

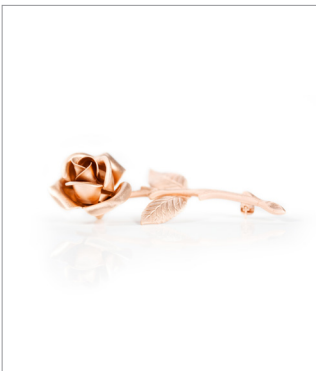


### Neutral, cadmium-free electrolyte for red layers

AURUNA<sup>®</sup> 503 is a neutral, cadmium-free gold-copper electrolyte for the deposition of bright red surfaces. It works without free cyanide.

AURUNA<sup>®</sup> 503 is especially suited to decorative but also technical applications, such as slirings. Special features of this electrolyte are its long lifetime and fast deposition speed. For low-carat gold-saving layers, it also offers good resistance to corrosion and abrasion.

The gold-copper electrolyte can be used for rack and barrel plating and can achieve layers up to 5  $\mu\text{m}$  in thickness.



### Advantages

- Gold-saving coating (approx. 18ct)
- Long lifetime
- Fast deposition speed
- Cadmium-free
- Red gold-copper coatings
- Resistant to tarnishing and corrosion
- Maximum layer thickness approx. 5  $\mu\text{m}$
- Very hard (380 - 400 HV), abrasion-resistant
- Suitable for rack and barrel

### Applications

- Accessories
- Jewelry
- Watches
- Bathroom fittings
- Lighting
- Spectacle frames
- Writing utensils
- Slirings

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## ROSE GOLD ELECTROLYTE



### TECHNICAL SPECIFICATIONS

Electrolyte characteristics		Coating characteristics	
Electrolyte type	neutral	Coating	Gold Copper
Metal content	6 (5 - 7) g/l Au 2.5 (2.0 - 3.0) g/l Cu	Purity	75 wt.% Au 25 wt.% Cu
pH value	7.5 (7.3 - 7.8)	Colour of deposit	rose gold
Operating temperature	65 (60 - 70) °C	Brightness	bright
Current density range	0.8 (0.6 - 1.2) A/dm <sup>2</sup>	Hardness of deposit HV 0.015 (Vickers) approx. values	380 - 400 HV
Deposition rate	approx. 0.25 µm/min at 0.8 A/dm <sup>2</sup>	Max. coating thickness	approx. 5 µm
Anode material	Pt-Ti (type PLATINODE® Pt/Ti)	Density of the coating	approx. 15 g/cm <sup>3</sup>

### 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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