



AURUNA® 502 Rose Gold Electrolyte

Neutral, cadmium-free electrolyte for red layers

AURUNA® 502 is a neutral, cadmium-free gold copper electrolyte working without free cyanide. The red surfaces are bright, very hard and abrasion-resistant.

AURUNA® 502 is mainly used for decorative coatings, but it is suitable for technical applications such as slip rings as well. As gold-saving, low-carat layers, the surface exhibits very good corrosion and tarnish resistance.

The gold copper electrolyte can be used for rack and barrel plating, it can deposit layers of up to max. 10 µm in thickness.



Electrolyte characteristics

Electrolyte type	Neutral
Metal content	4 (3.5 - 4.5) g/l Au 3 (2.5 - 3.5) g/l Cu
pH value	7.5 (7.2 - 8.0)
Operating temperature	57 (55 - 60) °C
Current density range	0.5 (0.3 - 0.8) A/dm ²
Plating speed	Approx. 0.15 µm/min at 0.5 A/dm ²
Anode material	Pt-Ti (type PLATINODE® Pt/Ti)

Coating characteristics

Coating	Gold-copper
Alloy composition	75 wt.% Au 25 wt.% Cu
Colour of deposit	Red
Brightness	Bright
Hardness	380 - 400 HV

Max. coating thickness	Approx. 10 µm
Density of the coating	Approx. 15 g/cm ³

Advantages

- Gold-saving coatings (approx. 18 ct)
- Cadmium-free
- Red gold-copper layers
- Resistant to tarnishing and corrosion
- Maximum layer thickness approx. 10 µm
- High hardness (380 - 400 HV), abrasion-resistant
- Suitable for rack and barrel

Applications

- Accessories
- Jewellery
- Watches
- Bathroom fittings
- Lighting
- Spectacle frames
- Writing implements
- Slip rings

Your contact person



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