



AURUNA® 215 Gold Iron Indium Electrolyte

Gold alloy electrolyte free of nickel and cobalt

AURUNA® 215 is a colour gold alloy electrolyte for decorative applications, preferably for parts coming into contact with the skin such as jewellery and watches. The essential advantage of the coatings is their freedom from nickel and cobalt, excluding skin allergies caused by these metals.



The weakly acidic gold electrolyte is easy to operate and suitable for rack and barrel, it works very colour-constant. Across a wide operating range, the coating colour (1N - 2N) is independent of pH-value and current density. By adding indium, a uniform colour is achieved.

Electrolyte characteristics

Electrolyte type	Weakly acidic
Metal content	2.5 (2.0 - 3.0) g/l Au 0.5 (0.4 - 0.6) g/l Fe 1.0 (0.8 - 1.2) g/l In
pH value	4.0 (3.8 - 4.5)
Operating temperature	35 (30 - 35) °C
Current density range	1.5 (0.5 - 2.0) A/dm ²
Plating speed	Approx. 0.14 $\mu m/$ min at 1.5 A/dm²
Anode material	Pt-Ti, MMO (type PLATINODE® 147)

Coating characteristics

Coating	Gold-iron-indium
Alloy composition	98.5 weight % Au 1.4 weight % Fe 0.05 weight % In
Colour of deposit	Approx. 1N - 2N
Brightness	Bright
Hardness	220 HV

Max. coating thickness	3 μm
Density of the coating	Approx. 17.5 g/cm ³

Advantages

- Weakly acidic colour gold electrolyte
- Pale to light yellow coatings
- Colour-constant across a wide operating range
- Uniform colour
- For decorative applications
- Non-allergenic since free of nickel and cobalt
- The coatings are RoHS compliant
- Suitable for rack and barrel

Applications

- Jewellery
- Watches
- Spectacle frames
- Writing implements
- Accessories

Your contact person



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