



Metal deposits



Aurega[®] blend Cu 118 PI

Bright ductile deposits in 18 carat gold

The gold process Aurega[®] blend Cu 118 PI is a cyanide electrolyte from which alloys of gold and copper can be deposited. The deposited layer has about 16 ct. – 18 ct. This type of process is used for decorative plating in the jewellery as well as optical frame industries. The deposits are bright, ductile and slightly levelling.



Properties and benefits

- Cadmium-free due to RoHS
- Bright ductile deposits
- Colour: rosé
- Thickness up to 5 µm
- CuCl₂ resistant polysulfide resistant
- L* = 84, a = + 8, b = + 13,5

Application area

- Jewellery
- Optical frames
- Watches

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Technical Data

Electrolyte properties		
Parameter	Range	Optimum
Gold	4,5 – 5,5 g/l	5 g/l
Copper	45 – 55 g/l	50 g/l
KCN _{free}	26 – 30 g/l	28 g/l
Potassiumhydroxide	3 – 5 g/l	4 g/l
Agitation	necessary	
Temperature	65 °C ±1°C	
Current density	0,4 – 1,5 A/dm ²	
Current efficiency at 0,4 A/dm ² , 5 g/l Au	67 mg/Amin	
Current efficiency at 1 A/dm ² , 5 g/l Au	62 mg/Amin	
Exposition time for 1 µm at 0,4 A/dm ² , 5 g/l Au	approx. 6,5 min	
Exposition time for 1 µm at 1 A/dm ² , 5 g/l Au	approx. 3,3 min	

Deposit characteristics

Appearance..... rosé

