



Metal deposits



# Aurega<sup>®</sup> blend Cu 118 PI

## Bright ductile deposits in 18 carat gold

The gold process Aurega<sup>®</sup> 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
- CuCl<sub>2</sub> resistant polysulfide resistant
- L\* = 84, a = + 8, b = + 13,5

### Application area

- Jewellery
- Optical frames
- Watches

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## Technical Data

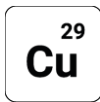
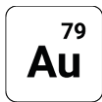
### Electrolyte properties

Parameter	Range	Optimum
Gold	4,5 – 5,5 g/l	5 g/l
Copper	45 – 55 g/l	50 g/l
KCN <sub>free</sub>	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 <sup>2</sup>	
Current efficiency at 0,4 A/dm <sup>2</sup> , 5 g/l Au	67 mg/Amin	
Current efficiency at 1 A/dm <sup>2</sup> , 5 g/l Au	62 mg/Amin	
Exposition time for 1 µm at 0,4 A/dm <sup>2</sup> , 5 g/l Au	approx. 6,5 min	
Exposition time for 1 µm at 1 A/dm <sup>2</sup> , 5 g/l Au	approx. 3,3 min	

### Deposit characteristics

Appearance..... rosé





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## Products available

3410000	Aurega® blend Cu 118 PI Make up
3410100	Aurega® blend Cu 118 PI Brightener 1
3410200	Aurega® blend Cu 118 PI Brightener 2
3410300	Aurega® blend Cu 118 PI Wetting agent
3061000	IWG Copper solution No. 42
1159400	Potassiumgoldcyanide 68,2%
0021200	Potassiumcyanide
1258000	Potassiumhydroxide

FOR ANY FURTHER INFORMATION WE WILL BE PLEASED TO BE AT YOUR DISPOSAL  
PERSONALLY UNDER+ 43 (0)2287 71073 OR OFFICE@IWGPLATING.COM

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