

Metal deposits



Aurega® blend Cu 114 CX

Bright levelling ductile deposits in 14 carat gold

The electrolyte can be used for multi colour production of jewellery parts or for reparation or restoration. The gold process Aurega® blend Cu 114 CX is a cyanide electrolyte from which rosé coloured alloys of gold can be deposited. The deposited layer has about 13 ct. – 15 ct. depending on the applied current density. 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
- Complies with REACH-Regulation
- Ductile, bright deposits
- Colour 1N
- Thickness up to 10 microns
- CuCl₂ resistant, polysulfide resistant
- Cost saving especially when plating high thicknesses
- High hardness

Application area

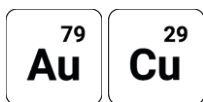
- Jewellery
- Optical frames
- Watches

Aurega blend Cu 114 CX.E

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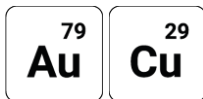


Technical Data

Electrolyte properties		
Parameter	Range	Optimum
Gold	4 – 6 g/l	5 g/l
Copper	50 – 60 g/l	52 g/l
Indium	0,7 – 0,9 g/l	0,8 g/l
Zinc	320 – 390 mg/l	350 mg/l
KCN _{free}	30 – 36 g/l	33 g/l
pH-value	10,4 – 10,8	10,6
Agitation		Necessary
Temperature		65 °C $\pm$ 1°C
Stromdichte		0,8 – 1,2 A/dm ²
Carat at 1 A/dm ² , 5 g/l Au *		Approx. 14 kt
Current efficiency at 1 A/dm ² , 5 g/l Au*		58,0 mg/Amin
Exposition time for 1 μ at 1 A/dm ² , 5 g/l Au*		Approx. 3,1 min

- * The given values of current densities and carats are based on lab testing conditions.
Practical conditions depend on installations. (e.g. solution flow; cathode movement)

Current densities and related alloy deposition are depending on tank size and anode to cathode distance.



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Deposit characteristics

Appearance.....pale yellow, 1N
Carat.....approx. 13 – 15 ct
Gold content approx. 55 – 63 %

Products available

.....Aurega® blend Cu 114 CX Make up
.....Aurega® blend Cu 114 CX Replenisher 1
.....Aurega® blend Cu 114 CX Replenisher 2
.....Aurega® blend Cu 114 CX Wetting agent
.....Aurega® blend Cu 114 CX Complexer
.....Aurega® blend Cu 114 CX Density correcting salt
3061000 IWG Copper solution No. 42
..... IWG Indium solution No. 76
3406600 IWG Zinc solution No. 55
1159400 Potassium gold cyanide 68,2%
0021200 Potassium cyanide

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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