

umicore

AURUNA® 500 LC ROSE GOLD ELECTROLYTE



Rose gold layers for fine jewelry

AURUNA® 500 LC is a neutral electrolyte for depositing red 18 carat gold-copper coatings. The electrolyte works with low gold content, has a stable pH-value and works without free cyanide.

The alloy is mainly suitable for decorative applications such as jewelry and accessories. The layers are very hard and abrasion-resistant. As low-carat gold-saving coatings, they additionally exhibit a very good resistance to tarnishing and corrosion.

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Advantages

- Rose gold-copper layers
- Gold-saving coatings (approx. 18 kt)
- Tarnish and corrosion resistant
- Low gold content
- No free cyanide

Applications

- Accessories
- Jewelry
- Watches
- Bathroom fittings
- Lighting
- Spectacle frames
- Writing utensils

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TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	neutral
Metal content	2 (1.5 - 3) g/l Au 1.5 (1.3 - 2) g/l Cu
pH value	7.0 (6.8 - 7.2)
Operating temperature	57 (55 - 60) °C
Current density range	0.4 (0.3 - 1.0) A/dm ²
Plating speed	approx. 0.12 µm/min at 0.4 A/dm ²

Coating characteristics		
Coating	Gold copper	
Purity	approx. 75 wt.% Au approx. 25 wt.% Cu	
Colour of deposit	Rose	
Hardness of deposit HV 0.025 (Vickers) approx. values	approx. 380 - 400 HV	
Max. coating thickness	1.5 µm	
Density	approx. 15 g/cm ³	

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation? Our specialist will be happy to help you with any technical questions you might have.



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The information and statements contained herein are based on our experience in the fields of research and applied technology and are believed to be accurate at the time of publication, but - unless agreed in writing - we make no warranty with respect thereto, including but not limited to any results to be obtained. This product information sheet in the English language prevails any translation.

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