

Metal Deposition Solutions

PLATUNA® N1 PLATINUM ELECTROLYTE



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Very bright and white platinum coatings with PLATUNA® N1

The strongly acidic platinum electrolyte PLATUNA® N1 is used for the deposition of uniform, bright platinum coatings of light color up to 1 μ m thickness.

The electrolyte has an extraordinary wide range of current density and allows voltage controlled working. It is also suitable for rack and barrel operation.

Advantages

- Acidic platinum electrolyte
- Bright, white and brillant coatings
- For decorative applications
- Wide operating range
- Up to 1 µm layer thickness (crack-free)
- The coatings are RoHS compliant
- Suitable for rack and barrel

Applications

- Jewelry
- Writing implements
- Watches
- Spectacle frames
- Accessories

PLATUNA® N1 platinum electrolyte

TECHNICAL SPECIFICATIONS

Electrolyte characteristics				
Electrolyte type	Strongly acidic			
Metal content	2 (0,5 - 4) g/l			
pH value	< 1			
Operating temperature	30 (25 - 40) °C			
Current density range (depending on equipment)	1.5 (0.5 - 5.0) A/dm ²			
Plating speed	approx. 0.08 µm/min at 1.5 A/dm²			
Anode material	platinized titanium anodes			

Coating characteristics				
Coating	Platinum			
Purity	99.9 wt.% Pt			
Color of deposit	white			
Brightness	brilliant			
Hardness of deposit HV 0.015 (Vickers) approx. values	unmeasurable, approx. 500 HV			
Max. coating thickness	1 µm			
Density	approx. 21 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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