

AURUNA® 527

BARREL GOLD-PLATING ELECTROLYTE



Excellent Layer Thickness Distribution

AURUNA® 527 is a weakly acidic gold-nickel electrolyte with very good throwing power and layer thickness distribution, especially on hollow parts.

This makes the electrolyte perfect for use of bulk material in barrel and vibration coating systems. The interiors of cases or sockets often need to be gold-plated. The excellent throwing power therefore very positively influences the layer thickness distribution between the interior and exterior surfaces. This optimum distribution means gold can be saved.

The deposited layers have very good wear resistance, low contact resistance and impressive corrosion resistance.



Advantages

- Save gold due to optimal coverage of hollow parts
- Excellent throwing power
- Long-term stability in permanent operation
- Layers are classified in accordance with:
ASTM B-488-01: Type 1, Code C

Applications

- Bulk and barrel parts
- Pin, spring and plug contacts
- Contact sockets

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TECHNICAL SPECIFICATIONS

Electrolyte characteristics		Coating characteristics	
Electrolyte type	Weakly acidic	Coating	Gold-nickel
Metal content	4 g/l (2 - 5 g/l)	Nickel content	Approx. 0.15 weight %
pH-value	4.4 (4.0 - 4.6)	Fineness	Approx. 99.8 % Au
Temperature	Room temperature (20 - 28 °C)	Color	Light yellow
Current density	0.3 A/dm ² (0.1 - 0.5 A/dm ²)	Hardness	Approx. 150 HV 0.025
Deposition speed	Approx. 0.05 µm/min (0.02 - 0.11 µm/min)	Density of the coating	Approx. 17.5 g/cm ³
		Classification acc. to ASTM B 488-01	Type I, Code C

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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