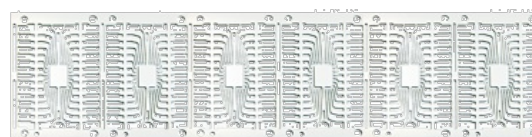


ARGUNA® ET-S Fine Silver Electrolyte

High-speed electrolyte for reel-to-reel plating



The ARGUNA® ET-S silver electrolyte is an alkaline-cyanide process specifically developed for use in high-speed equipment for reel-to-reel silver plating (using flow or spray technologies). The process deposits smooth and fine-grained, semi-bright coatings which are particularly suitable for semiconductor technology.

Current density and plating speed depend on the electrolyte agitation at the parts, i.e. on the equipment used. High flow velocities allow very high current densities.

Electrolyte characteristics

Electrolyte type	alkaline-cyanide
Metal content	100 g/l Ag
pH value	12.5
Operating temperature	30 - 75 °C (optimum 35 °C)
Current density range	10 - 150 A/dm ²
Plating speed	0.2 - 1.5 µm/s
Anode material	Fine silver or MMO (type PLATINODE® 167 or 177)
Electrical conductivity	>50 m*(Ω*mm ²)-1

Coating characteristics

Coating	Fine silver
Purity	99.9 wt.% Ag
Colour of deposit	White
Brightness	Semi-bright
Hardness	110 HV (as plated)

Advantages

- High-speed electrolyte for all-over and selective deposition of fine silver
- For reel-to-reel plating using flow or spray technologies
- Semi-bright coatings with very good soldering and bonding properties
- Use of soluble anodes possible

Applications

- Contact surfaces for electrical and electronic components

Your contact person

The image shows the Umicore Electroplating logo, which consists of the word "umicore" in blue lowercase letters and "Electroplating" in smaller blue uppercase letters below it. To the right of the text is a circular logo with green and blue concentric arcs. Next to the logo is a portrait of Markus Legeler, a man with short brown hair, smiling, wearing a dark blue patterned shirt.

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