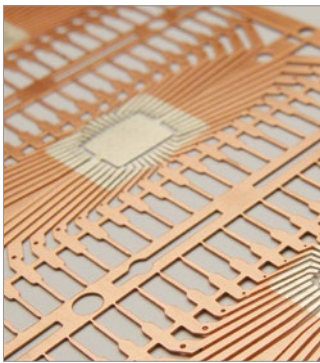




Version: 16 July 2018

ARGUNA[®] CF

FINE SILVER ELECTROLYTE



The Fine Silver High-Speed Electrolyte

ARGUNA[®] CF is a fine silver electrolyte for the fast deposition of satin to semi-bright coatings with excellent bonding, soldering and adhesive properties.

ARGUNA[®] CF is used in high-speed equipment for the selective deposition of fine silver (flow and spray lines, jet plating, spot plating). Maximum applicable current density and plating efficiency mainly depend on the electrolyte agitation at the parts, i. e. on the flow velocity in the plant. High flow velocities allow the application of high current densities, high plating speeds can be reached in this way. For making up a new electrolyte, no free cyanide is required. Immersion silver plating can be effectively inhibited with ARGUNA[®] Pre-dip 600, which can be used in the production process prior to the silver electrolyte or it can be directly added to the electrolyte.



Advantages

- High-speed electrolyte for the selective deposition of fine silver
- No free cyanide in a new makeup
- For reel-to-reel plating using flow or spray technologies
- Semi-bright coatings
- Very good bonding, soldering and adhesive properties

Applications

- Contact surface for semi-conductors and electrical components
- Leadframe packaging for soldering, bonding and adhesive applications

ARGUNA® CF

FINE SILVER ELECTROLYTE



TECHNICAL SPECIFICATIONS

| Electrolyte characteristics | |
|-----------------------------|--|
| Electrolyte type | Weakly alkaline |
| Metal content | 120 g/l Ag |
| pH value | 8.3 (8.0 - 8.6) |
| Operating temperature | 75 (65 - 75) °C |
| Current density range | 30 - 100 A/dm ² |
| Plating speed | 0.3 - 1.0 µm/s |
| Anode material | 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 | Satin |
| Hardness of deposit HV 0.015 (Vickers) approx. values | 100 - 130 HV as plated |
| Max. coating thickness | 20 µm |

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.



Markus Legeler
Manager Sales International

Mail: markus.legeler@eu.umicore.com
Phone: +49 (0) 7171 607 - 204

