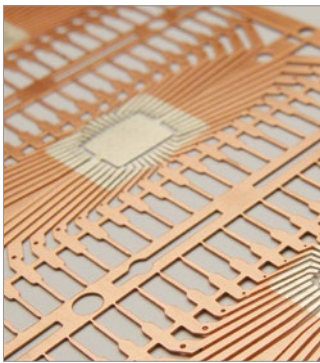




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# ARGUNA<sup>®</sup> CF

## FINE SILVER ELECTROLYTE



### The Fine Silver High-Speed Electrolyte

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

ARGUNA<sup>®</sup> 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<sup>®</sup> 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 continuous lines 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 <sup>2</sup>
Plating speed	0.3 - 1.0 µm/s
Anode material	MMO (type PLATINODE® 167 or 177)
Electrical conductivity	>50 m*(Ω*mm <sup>2</sup> ) <sup>-1</sup>

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

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Electroplating

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