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# ARGUNA<sup>®</sup> ET-P

## BRIGHT SILVER ELECTROLYTE



### Bright Silver Electrolyte for Technical Applications

The ARGUNA<sup>®</sup> ET-P silver electrolyte is used to deposit bright silver coatings for (electro) technical applications. The process is especially suitable for rack operation.

Deposits on matt surfaces are smooth and fine-grained. The coatings have very good electrical properties. The hardness of the coatings as plated is about 110 - 130 HV 0.025 and drops to a final value of 70 - 80 HV 0.025 during storage.

ARGUNA<sup>®</sup> ET-P is a fine silver electrolyte of ultra-bright coatings with excellent bonding, soldering and adhesive properties. It is mainly used for LED application with full plated silver leadframe.



### Advantages

- Bright coatings with good soldering and bonding properties
- For rack and barrel plating
- For continuous line using flow technologies
- Use of soluble anodes

### Applications

- Leadframe packaging for soldering, bonding and adhesive application.

# ARGUNA® ET-P

## BRIGHT SILVER ELECTROLYTE



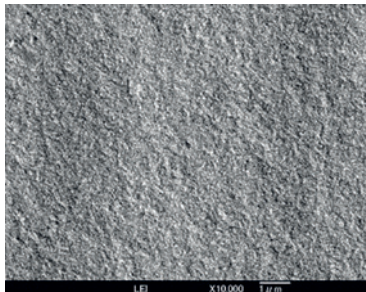
### TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Alkaline-cyanide
Metal content	30 (25 - 35) g/l Ag 110 g/l KCN
pH value	12.5
Operating temperature	25 (18 - 30) °C
Current density range	3 (2 - 5) A/dm <sup>2</sup>
Plating speed	1.2 - 3.3 µm/min

Coating characteristics	
Coating	Fine silver
Purity	99.9 wt.% Ag
Density	10.5 g/cm <sup>3</sup>
Colour of deposit	White
Brightness	Bright
Hardness of deposit	110 - 130 HV as plated, dropping to about 70 - 80 HV during storage

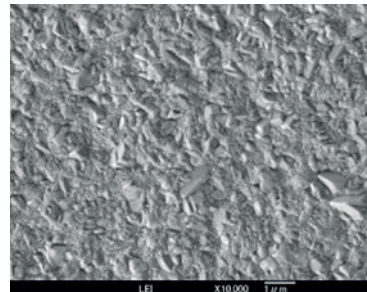
#### Grain Structure

ARGUNA® ET-P (GAM > 1.5)



Magnification 10.000 X

Semi-bright deposition (GAM 0.4)



Magnification 10.000 X

### 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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