

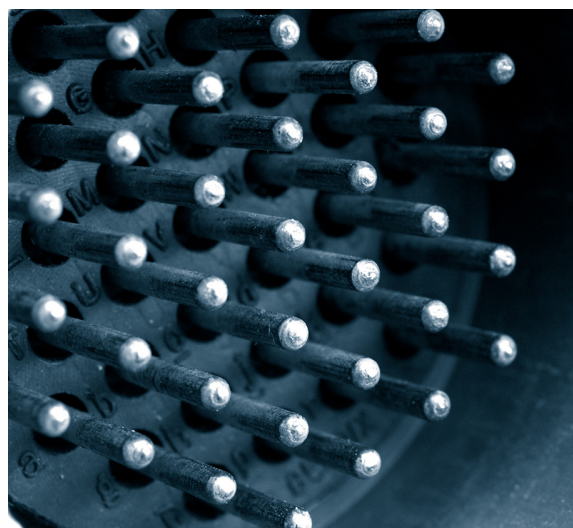
ARGUNA® 3430 Cyanide-free Hard Silver Electrolyte

For deposition of wear-resistant silver layers with high hardness

ARGUNA® 3430 is an alkaline, cyanide-free electrolyte for the deposition of technically functional silver layers.

The electrolyte does not contain any toxic cyanide compounds and can therefore be used in a simplified way under the increasing environmental and safety requirements. The deposited layers have excellent abrasion resistance and are particularly suitable for the application of highly stressed electrical contact surfaces. An excellent thermal resistance improves the reliability and lifetime of these contact systems.

ARGUNA® 3430 is ideally suited for rack and barrel applications. Coating thicknesses up to 40 µm are possible without any problems.



Electrolyte characteristics

Electrolyte type	cyanide-free, alkaline
Metal content	20 (18 - 30) g/l
pH value	10.4 (10.2 - 10.6)
Operating temperature	30 (25 - 45) °C
Current density range	0.5 - 1.5 A/dm ²
Plating speed	1 µm in 1.5 min at 1.0 A/dm ²

Coating characteristics

Coating	Hard silver
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Purity	>97 wt.% Ag
Colour of deposit	white
Hardness of deposit	170 - 190 HV (after deposition), approx. 150 HV (after aging)
Density of the coating	ca. 10.5 g/cm ³

Advantages

- Cyanide-free, significantly reduced exposure to hazardous substances
- Excellent wear resistance of the coatings
- Excellent thermal resistance
- Improved reliability of contact systems
- Ideal for rack and barrel operation

Applications

- E-Mobility / Automotive
- Charging connectors
- High Power Contacts

Your contact person



Markus Legeler

Manager Sales International

T: +49 7171 607 204

F: +49 7171 607 316

markus.legeler@eu.umicore.com