



ARGUNA® 3430

CYANID-FREE HARD SILVER ELECTROLYTE

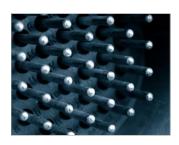


For deposition of wear-resistant silver layers with high hardness

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.



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

ARGUNA® 3430

CYANID-FREE HARD SILVER ELECTROLYTE

TECHNICAL SPECIFICATIONS

| 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/dm² |

| Coating characteristics | |
|--|--|
| Coating | Hard silver |
| Purity | >97 wt.% Ag |
| Colour of deposit | white |
| Hardness of deposit HV 0.015 (Vickers) approx. values | 170 - 190 HV (after deposition), approx. 150 HV (after aging) |
| Density | ca. 10.5 g/cm³ |
| Maximum coating thickness | Up to 10 µm bright depositions, Thicknesses > 10 µm semi-matt |

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

