

# omicore

# ARGUNA® 3430 CYANID-FREE HARD SILVER ELECTROLYTE

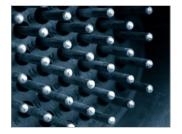


#### For deposition of wear-resistant silver layers with high hardness

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/dm²
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/cm <sup>3</sup>
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.



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