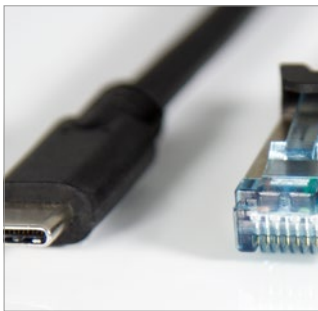




Version: 14 January 2021

PALLUNA[®] 4700

PALLADIUM NICKEL ELECTROLYTE



For hard and wear resistant coatings

PALLUNA[®] 4700 is a chloride-free ammoniacal high-speed electrolyte for the deposition of a semi-bright to bright palladium-nickel alloy in reel-to-reel lines (selective dipping, jet plating, brush plating) and tabplaters.

Depending on the operating conditions, the electrolyte deposits alloy layers with approx. 80% of Pd. The alloy composition is largely independent of the current density.

The hard and wear-resistant layers are ductile, with low internal stresses and exhibit good corrosion resistance.



Advantages

- Chloride-free
- pH and ammonia reduced
- High deposition rate
- Ductile coatings
- Constant alloy composition

Applications

- Industrial connectors (data and signal transmission)
- IT connectors (e.g. USB-C)

PALLUNA[®] 4700

PALLADIUM NICKEL ELECTROLYTE

TECHNICAL SPECIFICATIONS

Electrolyte characteristics		Coating characteristics	
Electrolyte type	Chloride-free ammoniacal	Coating	Palladium nickel
Metal content	20 g/l Pd 15 g/l Ni	Purity	80 wt.% Pd 20 wt.% Ni
pH value	7.7	Brightness	Semi-bright to bright
Operating temperature	40 °C	Hardness of deposit HV 0.015 (Vickers) approx. values	approx. 550 HV kp/mm ² (5mN load)
Current density range	up to 50 A/dm ² in JetLab	Density	ca. 10.8 g/cm ³
Plating speed	up to 12 µm/min in JetLab		
Anode material	Platinized titanium (e.g. PLATINODE [®])		

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quotation?
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

