



PALLUNA® ACF-800 Pure Palladium Electrolyte

Ammonia-free and chloride-free

PALLUNA® ACF-800 is a newly developed neutral pure palladium electrolyte, which has a wide operating range and can be plated directly on nickel, copper or copper alloys.

PALLUNA® ACF-800 is ammonia-free and thereby avoids unpleasant smells. Furthermore the lifetime of the anodes is significantly extended and the corrosion of the system is immensely reduced by abstaining from the use of chloride. The produced layers are ultra-bright, crack-free and show low internal stress. At the same time they are ductile and extremely corrosion resistant.

By continuous activated carbon treatment organic decomposition products in the electrolyte can be removed.



Electrolyte characteristics

| | |
|-----------------------|--|
| Electrolyte type | Free from ammonia and chloride |
| Metal content | 12 (5 - 30) g/l Pd |
| pH value | 6.5 |
| Operating temperature | 55 - 65 °C |
| Current density range | Up to 25 A/dm ² |
| Plating speed | Up to 4 µm/min at 20 A/dm ² |
| Anode material | MMO (type PLATINODE® 187 SO) |

Coating characteristics

| | |
|-------------------|--------------------------|
| Coating | Pure palladium |
| Purity | 99.9 wt.% Pd |
| Colour of deposit | White / light and bright |

| | |
|------------------------|------------------------------|
| Colour of deposit | white / light and bright |
| Brightness | Bright |
| Hardness | Approx. 280 HV |
| Density of the coating | Approx. 12 g/cm ³ |
| Corrosion resistance | Good |

Advantages

- No unpleasant smell of ammonia
- Easy electrolyte maintenance
- High plating speed
- Neutral, ammonia-free and chloride-free electrolyte
- Ductile, ultra-bright and crack-free coatings
- Very good soldering and bonding features
- For rack and reel-to-reel operation

Applications

- Printed circuit boards
- Contacts on plug-in cards
- Smartcards
- On bonding wire

Your contact person



Markus Legeler

Manager Sales International

T: +49 7171 607 204

F: +49 7171 607 316

markus.legeler@eu.umicore.com