

# Pallacor HSN Plus

## Pd/Ni plating solution



Electronics

Functional electronic coatings

atotech.com



## Superior Pd/Ni layers with exceptional alloy uniformity and corrosion resistance

# 80/20

stable Pd/Ni ratio from  
20 to 80 ASD

### Suitable for various applications

With its vast operating window Pallacor HSN Plus is suitable for spot and brush plating as well as wheel plating applications. Uniform brightness can be achieved from high to low current density. Additionally, a single additive system is used for easier process control.

The ductile and pore-free, yet wear-resistant coatings ensure excellent corrosion resistance and solderability which makes them a real alternative to gold layers.

The bath life of more than 20 MTO reduces waste-water treatment, increases efficiency and makes Pallacor HSN Plus the more environmentally friendly option. Its chloride-free formulation minimizes the corrosive attack on equipment and base material. Pallacor HSN Plus can be easily integrated into existing plating lines by replacing the existing Pd/Ni solution with Pallacor HSN Plus.

# Pallacor HSN Plus – combining ductility and wear-resistance



Bend Test for ductility as per ASTM B 489-85

## Ductility

Good ductility is essential for connector plating applications as any crack in the surface exposes the non corrosion resistant base material. Pallacor HSN Plus layers show no cracks in bending tests using a 3mm mandrel. Other products in the market already show cracks using a 4mm mandrel.

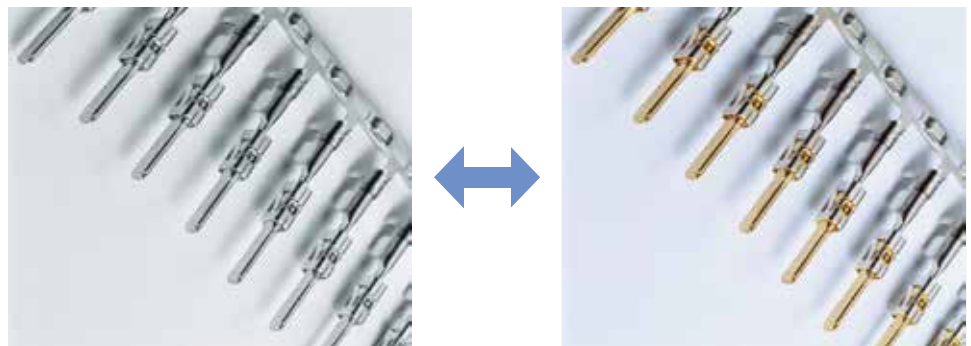
## Operating parameters

- Current density: 20 – 80 ASD
- Temperature: 50 – 70 °C
- pH value: 6.5 – 8.0
- Deposition speed: 7.0 – 9.5  $\mu\text{m}/\text{min}$  (@ 40 ASD)
- Deposition rate: 24 – 28 mg/Amin
- Metal content: 15 g/l Pd | 7.4 g/l Ni
- Density: 1.1 – 1.2  $\text{g}/\text{cm}^3$
- Single additive system

## Excellent alternative or supplement to gold

The outstanding hardness and wear resistance of Pallacor HSN Plus deposits is unmatched by gold layers which increases the product life cycle significantly.

However, flexibility is key nowadays where gold and palladium prices are subject to big price changes within only a few weeks. Combining Pallacor HSN Plus with our Aurocor series gives customers the opportunity to offer their customers a tailor-made and cost-effective solution at any given time.



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