



Effective corrosion protection for more than just gold

1

Post-treatment for all
connector surfaces

Betatec®

is a real all-rounder! It can be applied to all connector surfaces. It is a water soluble slightly acidic immersion post-treatment creating an organic monolayer on the final finish. Betatec® generates a highly hydrophobic surface which effectively protects it from corrosion. Betatec® improves solderability of aged surfaces and withstands extensive heat treatments and reflow operations. Betatec® does not affect contact resistance.

Betatec® can be applied in R2R, rack or barrel plating tools.

Betatec® – Au and Sn post-treatment



Figure 1+2:
NVA test with 1,5 µm Ni/
0.3µm Aurocor SC and post-
treatments PT.
Top: No post-treatment
Bottom: With Betatec®

Anti corrosion properties

Due to its hydrophobicity it withstands the toughest corrosion tests. Surfaces treated with Betatec passes

- Nitric Acid Vapour- NAV acc. to ISO 14647/ASTM B-735 and Nokias v.1.0
- Neutral Salt Spray Tests-NSS acc. to ISO 9227
- Mixed Flowing Gas Test-MFG acc. to ASTM B827, B845, EIA-364-65A, IEC 60068-2-60

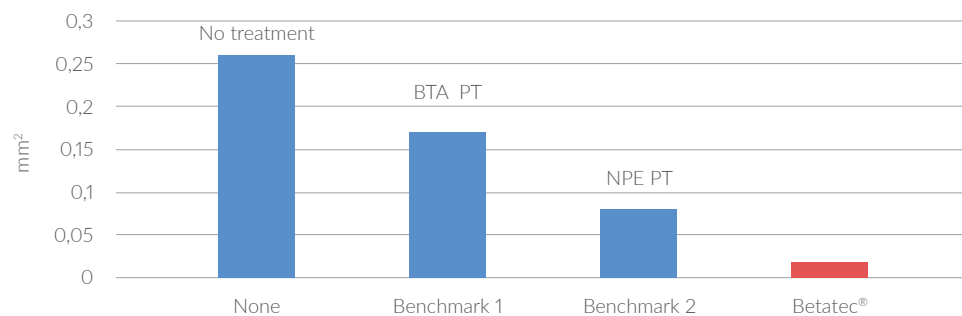
Discoloration prevention for Sn

Discoloration is often connected with solderability issues. Betatec is extremely effective in preventing Sn plated parts from discoloration and ensures a perfect solder bond even for aged goods.



Figure 3+4: Sn Surfaces after PCT (105 °C, 85% RH and 1,2 bar). Left: without Betatec; right with Betatec®

Corroded area comparison after NAV



Features and benefits

- Simple immersion process
- For R2R, barrel and rack plating
- Creates hydrophobic surfaces through organic monolayer
- Perfect solderability
- Significant corrosion protection
- No influence on contact resistance
- Protects Au, Sn and other surfaces

