TechniPad

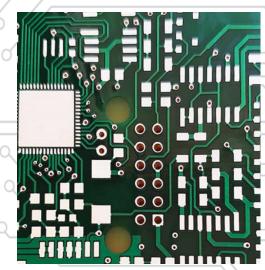
Immersion Silver IS 7070



Immersion Silver for 5G

TechniPad IS 7070 is an extremely stable, nitrate free, slightly alkaline solution for immersion deposition of Silver onto Copper. By using a proprietary Silver Complex, Technipad IS 7070, has no nitrates in the formula and has a wide tolerance for Chlorides. The result is a controlled pore free deposit without excessive copper attack.

The deposit color and tarnish resistance are excellent, providing consistent solderability for electronic assemblies. Technipad IS 7070 meets IPC-4553A. It provides a solderable, flat, lead-free surface for all levels of interconnect technology. It is the best process for 5G with the lowest insertion loss, as GHZ increase.



Features

- Nitrate free formula
- High tolerance to chlorides
- Low insertion loss
- Nickel free deposit
- Excellent tarnish resistance
- Porous free deposit
- RoHS & WEEE compliant
- Economical final finish
- Simple operation
- Best in class for corrosion protection

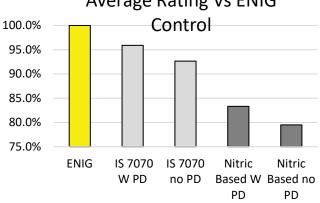


Multiple Corrosion tests such as, Nitric dip, Multiple horizontal micro-etch cycle and Creep corrosion Induced.

Benefits

- Eliminates excessive copper attack
- High resistance to creep corrosion potential
- Long solution life
- Suitable for 5G high speed applications
- Remain solderable
- Contribute to reduced cost
- Highest first pass yield

Average Rating Vs ENIG



TechniPad IS 7070

Pre-Clean Techni X-Cell 318 and Technietch AT 2000

- · Removes light soil, fingerprints, and residues
- Create a micro-roughen surface ideal for adhesion and high GHZ travel.

Immersion Silver TechniPad IS 7070

Technipad IS 7070 is an excellent choice for 5G due to its low impact on insertion or signal loss. The challenge is 5G's mobility requires a finish with superior electrical properties and stability in a wide variety of environments.

Nitrate-based processes, historically, have failed to be stable in harsh environment.

Technipad IS 7070 has been designed with this in mind, overcomming these challenges through its unique immersion Silver formulation.

Post dip Tarniban KSII

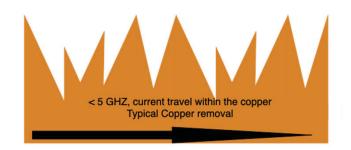
- Helps prevent Silver tarnish
- Improve Silver resistance to harsh environments.
- No negative impact with 5G insertion loss.
- Solderability remains excellent

The Technipad IS 7070 process

Technipad IS 7070 is the the best alternative for:

- Solderability
- High-speed communication
- · Harsh environment resistance.
- At a much lower cost than ENIG processes

Improved Preclean for High GHZ performance









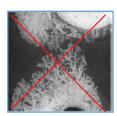


Figure 1: Hyper corrosion₁

Figure 2: Champagne voids₂

Figure 3: Creep corrosion₃

Below: Microstrip widebane insertion loss (IL results), differential method using 5mil extremely low loss laminate with rolled copper

