

Novoplate™ HS

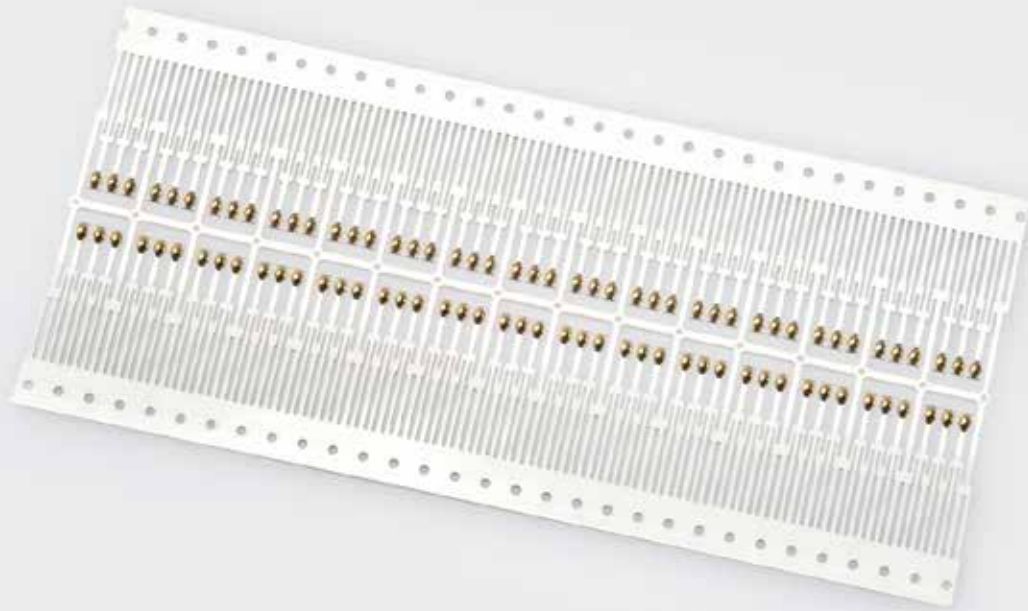
Electrolytic nickel phosphorous process



Electronics

Functional electronic coatings

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High speed electrolytic nickel phosphorous process for perfect corrosion resistance

Novoplate™ HS

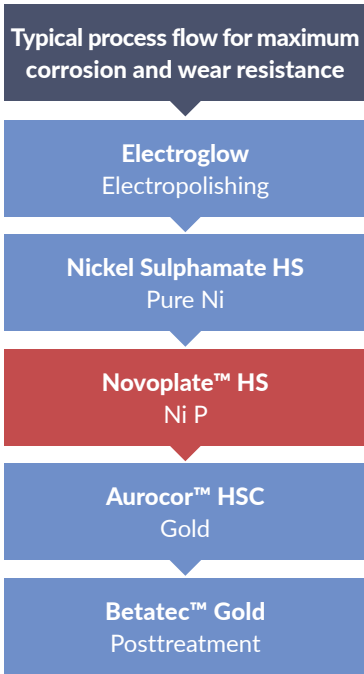
is your solution for a perfect corrosion resistance. Novoplate™ HS deposits a thin nickel layer with a defined and controllable amount of P. The P content can be adjusted in the range of 4-17 % depending on requirements. It reduces the amount of the following gold layer from 0.5 μm down to 0.3 μm .

It can either be used for high corrosion and wear resistance for connectors or as a final finish for thick Al wire bonding on lead frames.

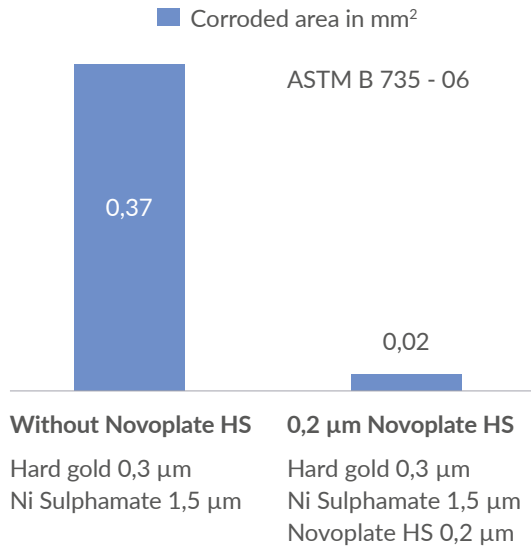
Features and benefits

- Ammonia free and non toxic additives
- Hardness 500-600 HV0,2
- Solderable layer and thick Al wire (100-500 μm) bondable surface
- Morphology and thermal behavior like e'less Ni
- Applicable for R2R, rack and barrel plating lines
- Plating thickness of more than 100 μm achievable

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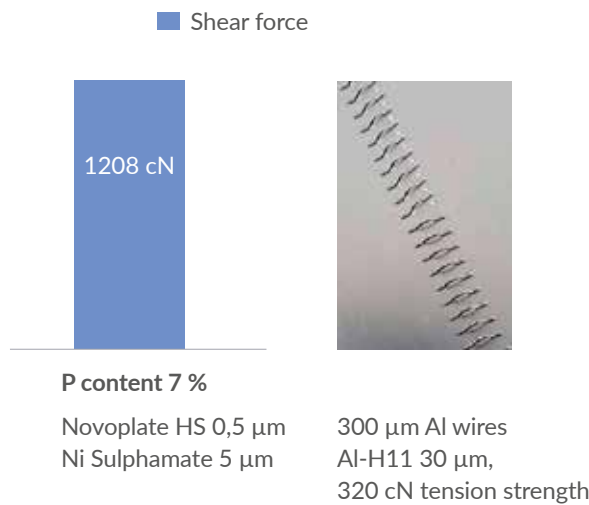


Nitric acid vapor corrosion test



0,2 µm
NiP coating for perfect corrosion resistance

Bonding test for thick Al wires



**0,1 -
0,5 µm**
NiP coating for thick Al wire bonding

