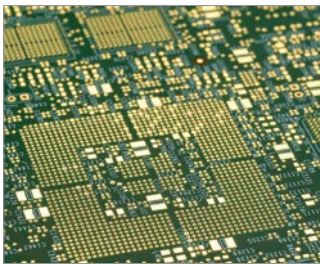




Version: 10 April 2017



GOBRIGHT® TLA-77 GOLD ELECTROLYTE



Immersion Gold Electrolyte for ENIG

Gobright® TLA-77 is a special neutral immersion gold electrolyte. It is suitable for ENIG plating on PCB and ceramic substrates. The gold concentration in the electrolyte is just 0.4 g/l. This means a dramatically cost saving potential by reducing dragout gold volume. This process also has excellent solder joint characteristics due to its lower corrosion attack on electroless nickel.

The electrolyte needs one concentrate for make up and an additional component for replenishment.



Advantages

- Easy maintenance due to displacement process
- Very low gold content
- Lemon-yellow appearance
- Minimized corrosion attack on electroless nickel

Applications

ENIG plating on PCB and ceramic substrates used for

- Consumer electronics
- Automotive industry
- Industrial electronics
- Telecommunications



GOBRIGHT® TLA-77

GOLD ELECTROLYTE

TECHNICAL SPECIFICATIONS

Electrolyte characteristics

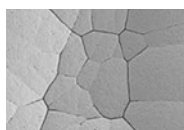
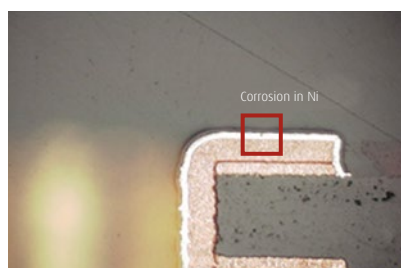
Electrolyte type	Displacement type
Metal content	0.4 (0.2 - 0.6) g/l Au
pH value	7.2 (7.0 - 7.4)
Operating temperature	80 (75 - 85) °C
Plating speed	0.065 µm/10 min at 80°C

Coating characteristics

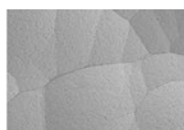
Coating	Fine gold
Purity	99,9 wt.% Au
Colour of deposit	Lemon yellow

Cross-Sections after ENIG Plating

Conventional displacement gold electrolyte



Gobright® TLA-77



SEM photo after stripping gold film

Cross section photo after OSP treatment

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Electroplating

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