

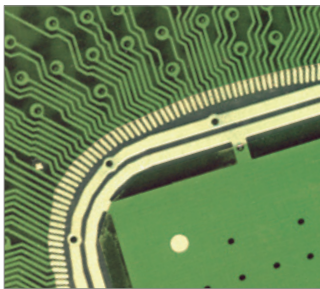


Version: 15 April 2019



AURUNA[®] 5100

PURE GOLD ELECTROLYTE

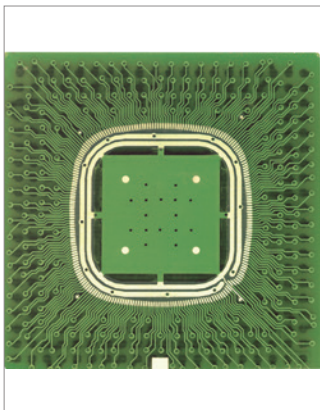


Pure Gold Coatings with Very Good Bonding and Soldering Properties

AURUNA[®] 5100 is a neutral fine gold electrolyte for depositing matt, lemon-yellow coatings. It's specifically developed for applications requiring excellent bonding and soldering properties.

In addition to good ductility, the layers from AURUNA[®] 5100 also exhibit a low hardness and a low contact resistance. Even under production conditions, the layers have a high gold purity of 99.99 wt. % Au.

The coatings meet the requirements of ASTM B488-01, Type III, Code A/B.



Advantages

- Neutral electrolyte for pure gold coatings with very good thickness distribution
- High current efficiency
- Resist-friendly operating conditions
- Excellent bonding and soldering properties
- Low contact resistance
- Classification according to ASTM B488-01 Type III, Code A/B
- Compatible with standard BGA requirements
- Easy maintenance and high stability of the electrolyte

Applications

- Rigid and flexible printed circuit boards
- Semiconductors
- BGA applications
- Ceramic and metallic substrates

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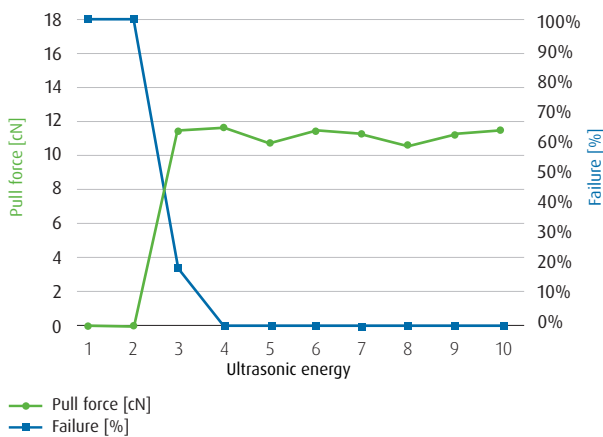


TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	Neutral
Metal content	5 (4 - 8) g/l Au
pH value	6.0 (5.8 - 6.2)
Operating temperature	65 (60 - 70) °C
Current density range	0.2 (0.1 - 0.5) A/dm ²
Plating speed	Approx. 0.13 µm/min at 0.2 A/dm ²
Anode material	Pt-Ti (type PLATINODE [®] Pt/Ti)

Coating characteristics	
Coating	Fine gold
Purity	99.99 wt.% Au
Colour of deposit	Lemon-yellow
Brightness	Matt
Hardness of layer HV 0.015 (Vickers)	85 HV
Density of deposited layer	Approx. 19 g/cm ³

Thermosonic Bonding - Larger Process Range



Thermosonic device: K&S 4124 (60 kHz)
 Au wire type: 25 µm
 No. of pulls: 50
 Bond distance: 1.7 mm
 Loop height: 0.5 mm
 Wire deformation: < 1.6

YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation?
 Our specialist will be happy to help you with any technical questions you might have.



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