

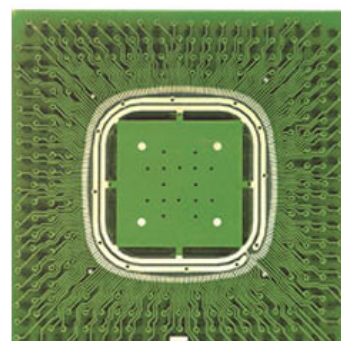
## AURUNA® 5100 Pure Gold Electrolyte

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.



### 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 <sup>2</sup>
Plating speed	Approx. 0.13 µm/min at 0.2 A/dm <sup>2</sup>
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	85 HV

Density of the coating

Approx. 19 g/cm<sup>3</sup>

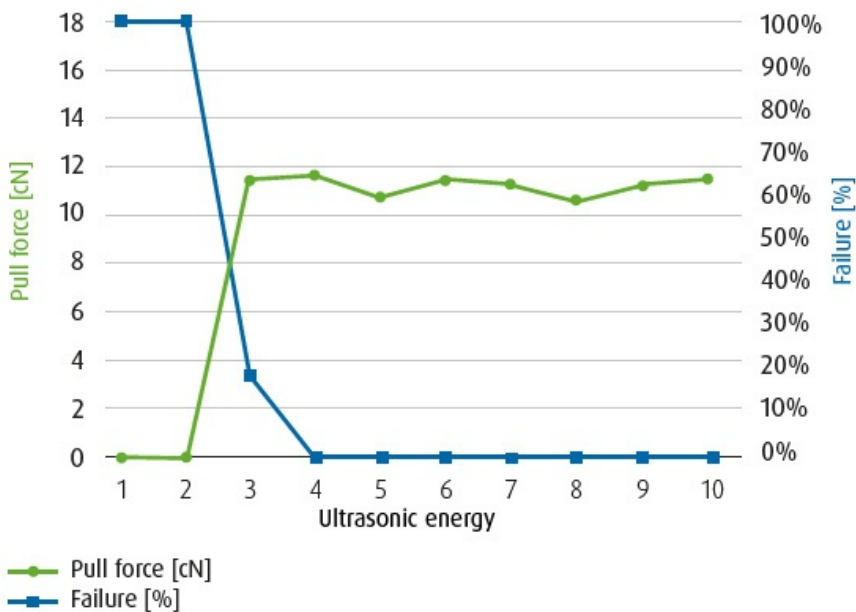
## Advantages

- 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

### 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 person





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