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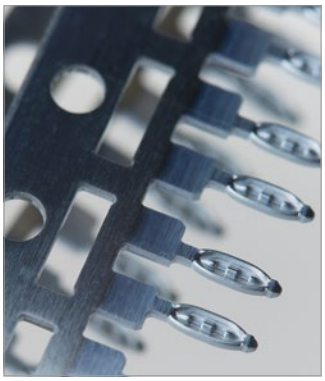
umicore Electroplating

INDIUM 9100

INDIUM ELECTROLYTE



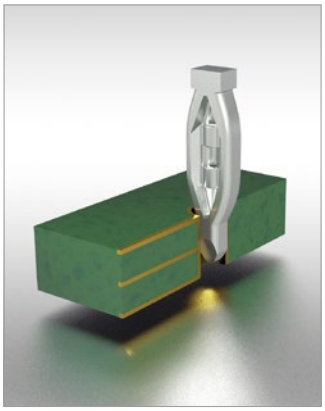
Acidic electrolyte for high speed installations

Indium 9100 is used for the deposition of pure indium coatings in high-speed systems. The electrolyte is easy to use.

Indium 9100 has been specially developed for high-speed deposition in selective coating and continuous strip lines. Strong electrolyte movement (flow, gating) enables working with high current densities and stable long-term behaviour.

The purest, deposited indium coatings can be soldered and remelted very well. This makes the process ideal for coating electronic components which can be remelted after coating.

The Indium 9100 process meets all requirements for press-fit technology.



Advantages

- Acidic high speed electrolyte
- White, bright and uniform coatings
- RoHS compliant coatings
- Use in high speed systems
- Pure Indium coatings with excellent cold welding properties
- Very good remelting properties
- Can be used with indium or other insoluble anodes
- Very low whisker formation compared to pure tin
- Wide working window for all system types

Applications

- Press-fit technology for connectors
- Connection technology for low solder temperatures

Photos: Possehl Electronics Deutschland GmbH, pretPin®

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TECHNICAL SPECIFICATIONS

Electrolyte characteristics	
Electrolyte type	acidic
Metal content	20 - 80 g/l
pH value	1.2 - 2.2
Operating temperature	50 (30 - 65) °C
Current density range (depends on system)	3 - 30 A/dm^2
Plating speed	0.3 - 2 µm/min
Anode material	Indium 99.99 or MMO 187 SO

Coating characteristics	
Coating	Indium
Purity	99.99 wt.% In
Colour of deposit	white
Brightness	matt
Hardness of deposit HV 0.015 (Vickers) approx. values	< 1 HV
Max. coating thickness	50 µm
Density of the coating	7.31 g/cm^3

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.

Markus Legeler
Manager Sales International

Mail: markus.legeler@eu.umicore.com
Phone: +49 (0) 7171 607 - 204

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