

# Indium Corporation Worldwide

## Our Goal

Increase our customers' productivity and profitability through premium design, application, and service using advanced materials.

### Our basis for success:

- Excellent product quality and performance
- Technical and customer service
- Cutting-edge material research and development
- Extensive product range
- Lowest cost of ownership

## Business Segments

- Electronics Assembly Materials
- Engineered Solders and Alloys
- Metals and Compounds
- Metal Thermal Interface Materials
- Nanotechnology
- Semiconductor Assembly Materials
- Solar Energy Materials



Form No. 99083 (A4) R0

ISO 9001  
REGISTERED

[www.indium.com](http://www.indium.com)

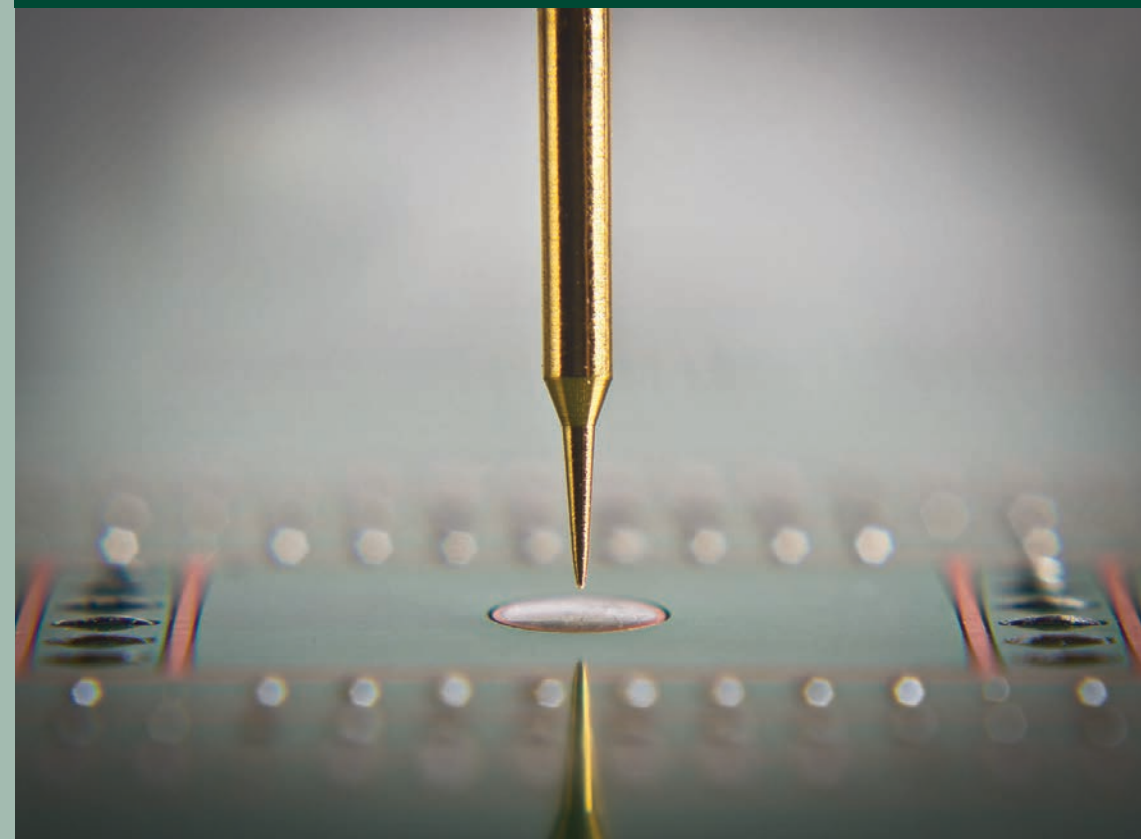
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# Pb-Free Solder Pastes for Improved Probe Testing Indium10.5HF and Indium8.9HF-1



From One Engineer  
To Another®

# Flux Residues Perfect for Probe Testing



## Indium10.5HF

New formula with soft, non-tacky flux residue for penetrability during ICT

## Indium8.9HF-1

Industry leading Pb-free solder paste for the highest first pass yields in ICT

In addition to Indium's industry-leading features:

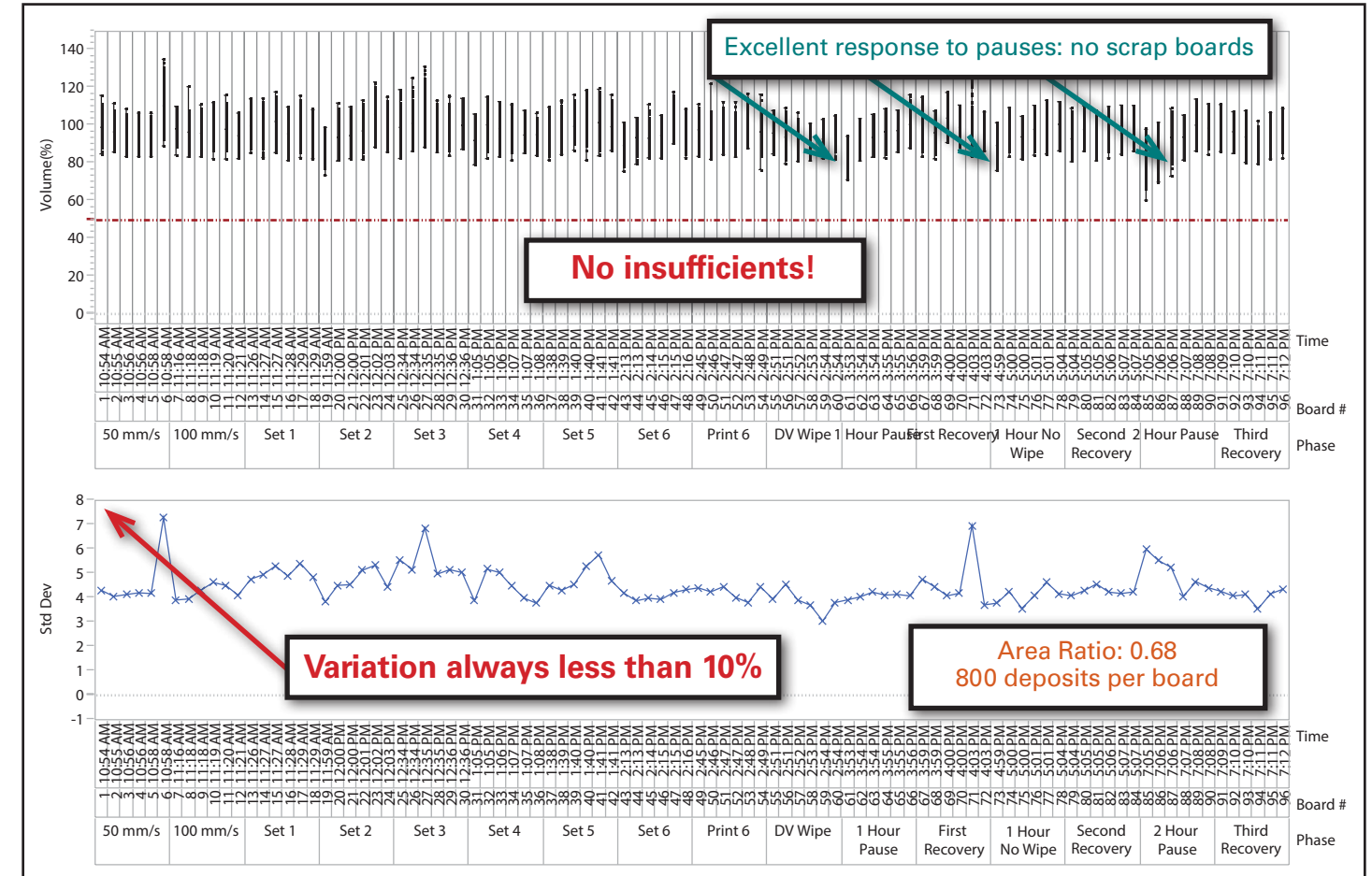
- Top quality stencil printing performance
- Robust process window for N2 and air reflow
- Superior solderability and wetting to many surface finishes
- Defect elimination due to unique oxidation barrier technology

## General Attributes

Flux Type: ROL0  
 EN14582 Halogen-free (<<500ppm Cl and Br)  
 SIR (J-004): Pass  
 Slump: Pass  
 Solder Ball: Pass  
 Wetting: Pass

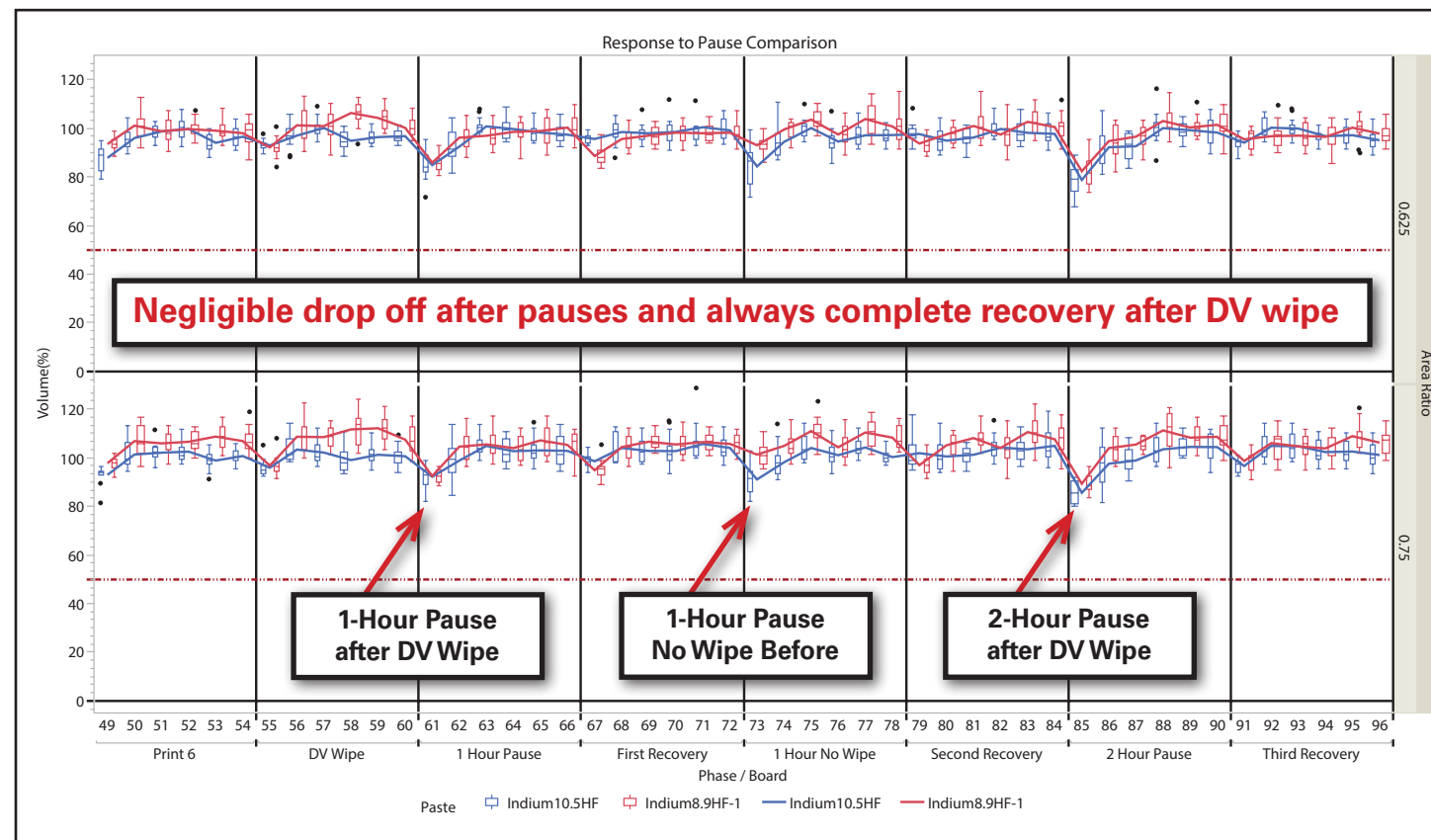
## Consistent Printing for 8 Hours

### Indium10.5HF Variability for 0201s with Surface Traces



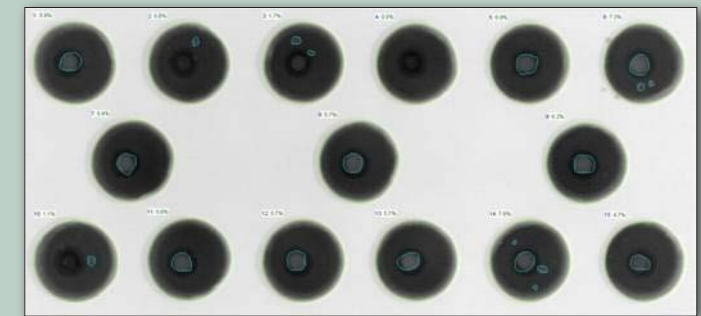
## Excellent Response to Pauses

### Indium10.5HF vs. Indium8.9HF-1 for Squares



## Minimal CSP Voiding (SAC305)

Indium8.9HF-1  
 Typical Air Profile  
 Avg Voiding: 4.9%



Indium10.5HF  
 Typical Air Profile  
 Avg Voiding: 2.6%

