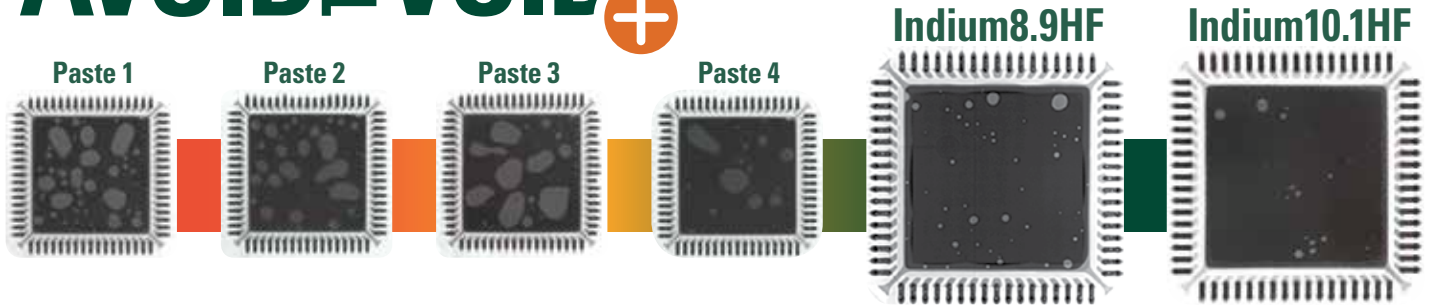


# RELIABILITY DELIVERED

## AVOID THE VOID<sup>®</sup> +



### Indium8.9HF Solder Paste

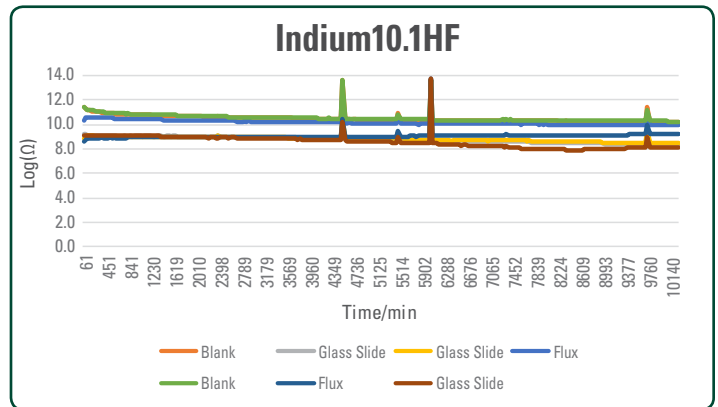
#### + ELECTRICAL RELIABILITY

Indium8.9HF Superior Electrical Reliability	Enhanced SIR Requirements	Standard SIR (J-STD-004B) Requirements
<b>Minimum SIR requirement</b>	5,000MOhms	100MOhms
<b>Time</b>	1,000 hours	168 hours
<b>Spacing</b>	0.2mm	0.5mm
<b>Voltage</b>	10V, 50V	5V
<b>SIR coupon</b>	B52	B24

- Indium8.9HF shows no dendritic growth under high-power, low-standoff MOSFETs (as validated with automotive customers)
- Proven low ionics <<<1.56µgrams/sq cm
- Meets MS184-01 testing criteria

### Indium10.1HF Solder Paste

#### + ELECTRICAL RELIABILITY

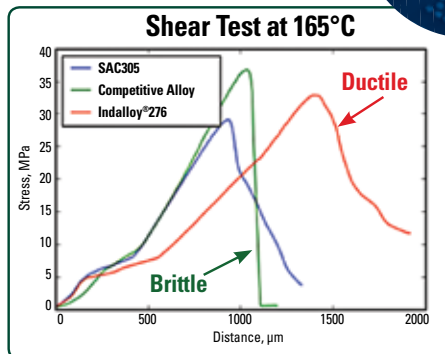
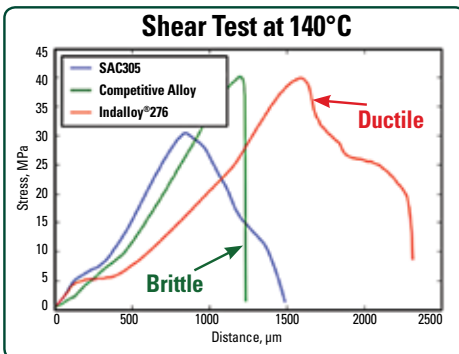


Glass Slide SIR is performed with the flux vehicle only to provide a worst-case scenario test. The glass slide is meant to mimic the bottom of a low standoff component. Reflowed solder paste would produce higher standoff and, therefore, higher SIR values.

## Indalloy<sup>®</sup>276

The High-Reliability Automotive Alloy

Indalloy<sup>®</sup>276  
IDEAL FOR  
OPERATING  
TEMPERATURES  
≥ 125°C



# RELIABILITY DELIVERED

## Full Line of Materials for all Aspects of Assembly

### Flux-Cored Wire

Circuit Board Assembly and Rework

- Void-free, perfectly layer-wound package
- Hand soldering and automated wire feed
- Widest range of flux-cored wire solders for both standard electronic assembly, as well as highly specialized needs

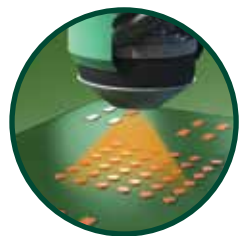


### Core 230-RC

No-Spatter, No-Clean, REACH-Compliant Robotic Soldering Wire

### CW-807

REACH-Compliant, Halogen-Free, No-Clean Flux-Cored Wire  
*Used for automated and hand soldering*



### WF-9958 Wave Solder Flux

- Halogen-free per J-STD-004B
- Light-colored, low-residue, rosin-free flux
- Residue for enhanced pin-testing performance
- Tested compatibility with HASL, Immersion Silver, ENIG, and OSP copper surfaces
- Tested for use with all common lead-free and tin-lead alloys

Test	Result
Color	Clear
Specific Gravity at 25°C (77°F) at 15.5°C (60°F)	0.798 0.805
Acid Value mgKOH/g flux mgKOH/g flux solids	28.5 571
Solids Content	4.99
Flash Point	12°C
J-STD-004B Flux Type	ORM0
Total Halogen	<50ppm



### Low-Temperature Solders (115 to 190°C)

#### Common Applications:

- Temperature-sensitive components
- Substrates that deform, melt, or delaminate at higher reflow temperatures
- Step-soldering
- CTE mismatch
- Moisture-sensitive components

#### Solder Forms:

- Paste
- Preforms
- Solid Wire
- Spheres
- Ribbon/Foil

Contact our expert today: [cnash@indium.com](mailto:cnash@indium.com)

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

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