

# Durafuse™ LT\*

The tough choice that is easy to make



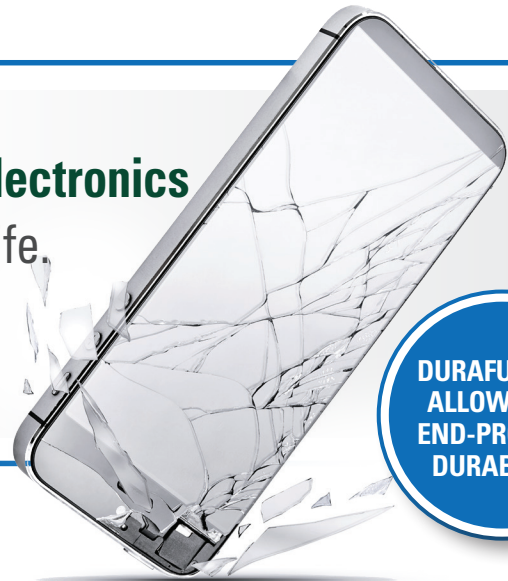
## Low-Temperature Alloy Solution

Improving Drop Shock Resistance

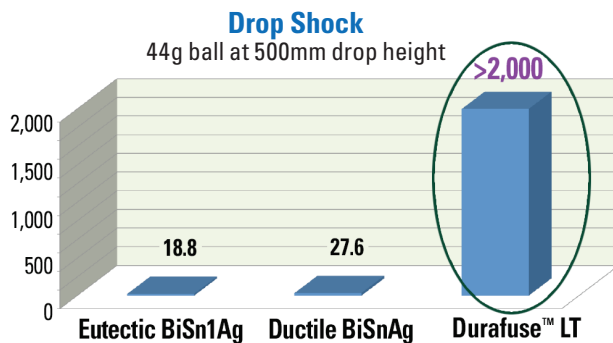
- More than two orders of magnitude better than Bi-containing low-temperature materials
- Performance equal to SAC305
- Ideal for step soldering

**Durafuse™ LT** obtains the benefits of low-temperature processing—reduced warpage and other negative effects on substrates and components—**without sacrificing reliability.**

**Dropping Electronics** is a fact of life.



## Improves Drop Shock Resistance



## Opens the Door for Step Soldering

- Peak reflow below 210°C
- Shear strength retained above 150°C

\*Patented

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

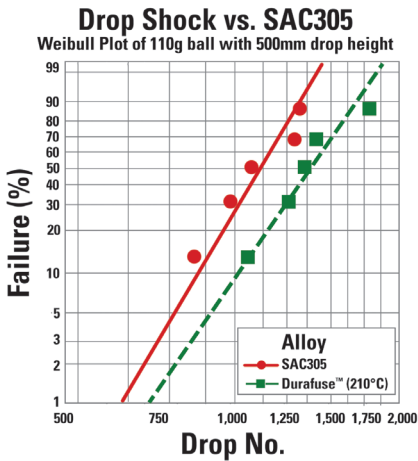
Learn more: [www.indium.com/durafuse](http://www.indium.com/durafuse)

**From One Engineer To Another®**

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

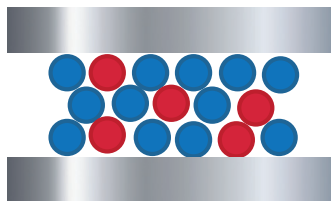
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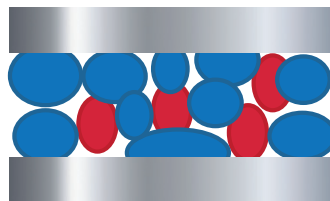
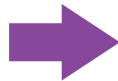


## Innovative Low-Temperature Alloy Technology

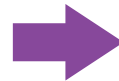
- Durafuse™ LT is a novel mixed-alloy system, which solves the challenges of brittle bismuth-based low-temperature solder joints
  - The SnInAg alloy initiates solder joint formation at a low-temperature while the higher temperature SAC alloy provides enhanced strength and durability



**Mixed-Alloy System**



**Reflow**

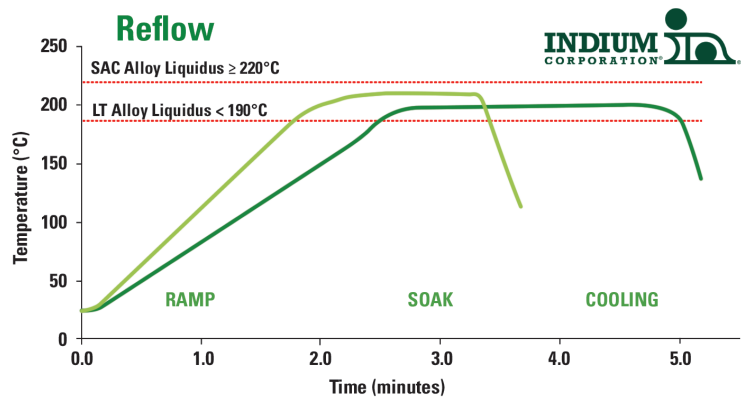


**Fully Fused Solder Joint**

## Durafuse™ LT Recommended Reflow

Optimization of the reflow profile with a plateau at peak temperature is essential for maximizing drop shock reliability

- A 200°C peak reflow temperature requires a longer plateau region
- Increasing peak temperature to 205 or 210°C allows for reduced reflow time
- This profile is a general guideline in establishing a reflow profile for Durafuse™ LT in Indium5.7LT-1



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