

Proven High-Reliability Solders for Power Discrete Assembly

NC-SMQ75

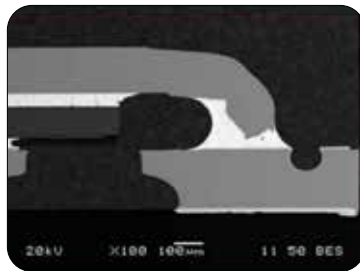
Ultra-Low Residue Die-Attach Paste

- Industry leading
- Ultra-low residue
- Excellent workability
- Compatibility with OM

Compatibility with OMC

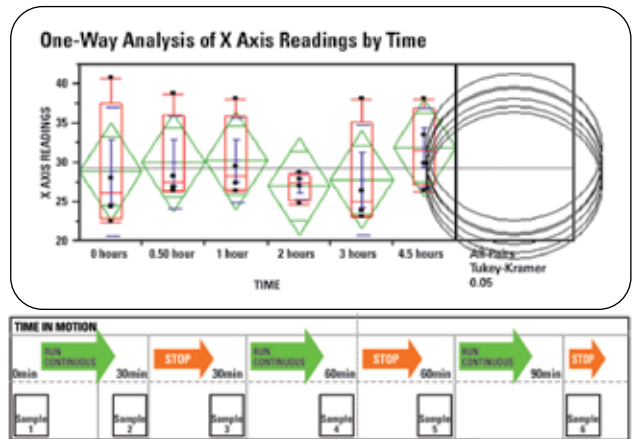
Clip-bonded package

- 1,000 hours thermal cycles (-55 to +130°C)
- SEM of cross-section
 - No evidence of flux residues
 - No delamination



Dispense Consistency

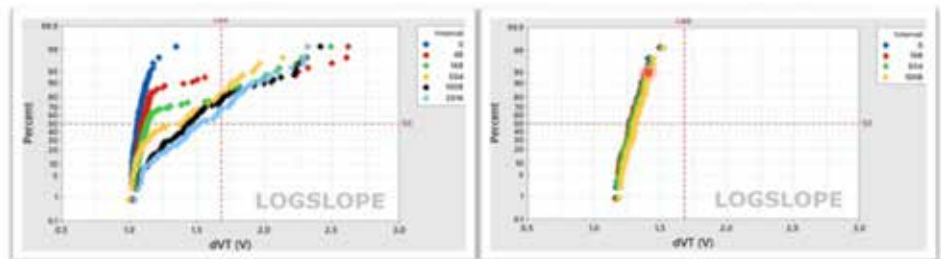
Statistically-based dispense trials showed no variation in deposit size, even after multiple start/stop cycles, including dispense after a 90-minute pause.



Low-Alpha

- Common high-Pb alloys – Pb/Sn5/Ag2.5 & Pb/Sn5
- Alpha emission materials – <0.01 CPH.CM2
- Compatible with high volume flux vehicles (e.g., NC-SMQ75)
- Mitigate leakage current caused by alpha particle impact

Example: HTGB - Vgs = 20V, T = 150°C, sampling intervals @ 0, 48, 168, 504, and 1,008 hours



Standard high-Pb solder

Indium Corporation's low- α high-Pb solder

Contact our engineers: askus@indium.com

Learn more: www.indium.com

From One Engineer To Another®

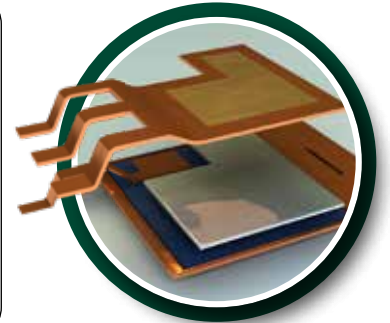
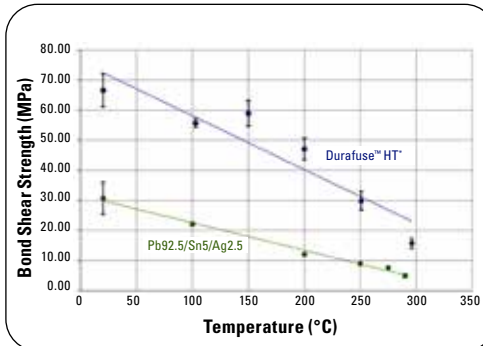
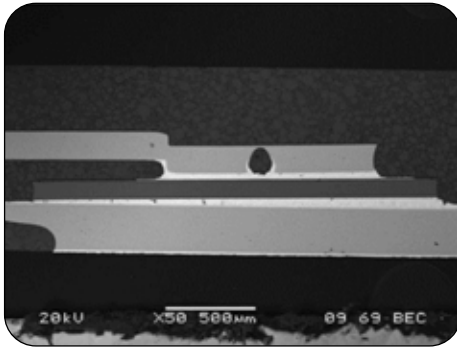
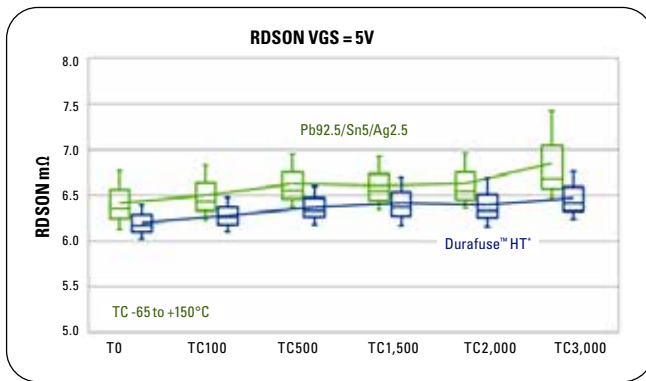
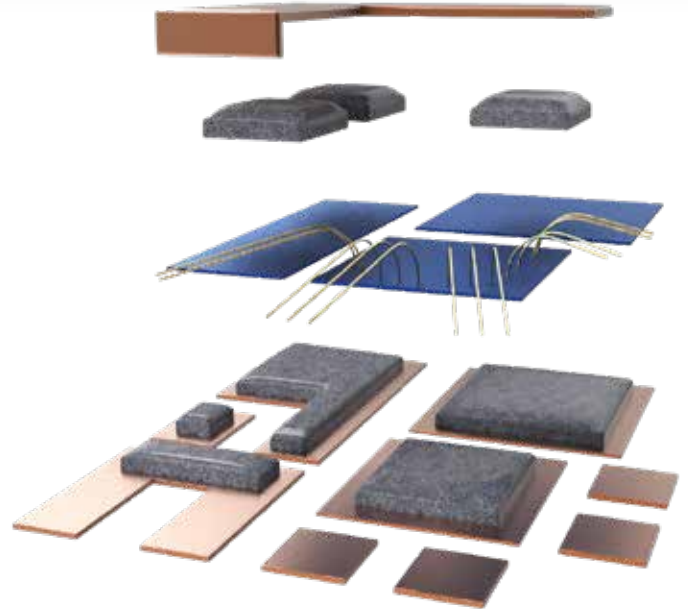
All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

Proven High-Reliability Solders for Power Discrete Assembly

High-Temperature Pb-Free Solder Paste

Durafuse™ HT*

- “Drop-In” to high-Pb process
- Equal to or better than high-Pb solder for thermal and electrical properties



QuickSinter®

- Pressureless Ag silver sinter paste as an alternative to high-Pb solder die-attach
- Pressure Ag sinter paste available for power module die-to-substrate and substrate-to-heat-sink attach

*Patent pending

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