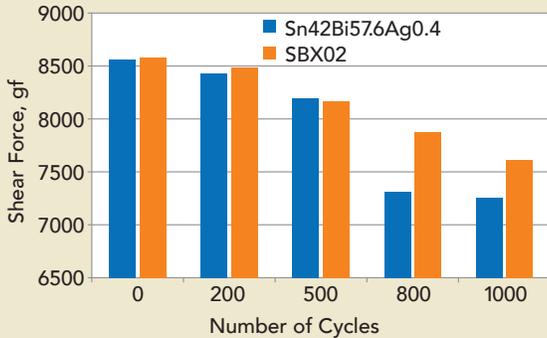
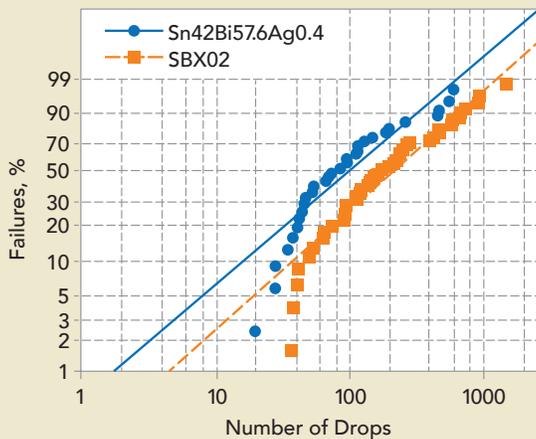


ALPHA® OM-535 LEAD-FREE, ZERO HALOGEN* SOLDER PASTE



Improved Shear Strength

Standard vs. High Drop Performance Alloy Weibull



Alpha Delivers Cutting-Edge Materials!

ALPHA® OM-535 Lead-Free, Zero-Halogen Solder Paste delivers low temp, excellent drop shock resistance and excellent electrical reliability for fine feature printing challenges.

ALPHA® OM-535 Flux System

- A Zero-Halogen flux system engineered specifically for low temperatures that enables lower residue and minimized dripping.
- Available for both stencil printing and dispense applications.
- Low-temp alloy enables wide process window and flexibility.
- High Reflow Throughput
- Compatible with both air and nitrogen reflow.

ALPHA® SBX02 Alloy

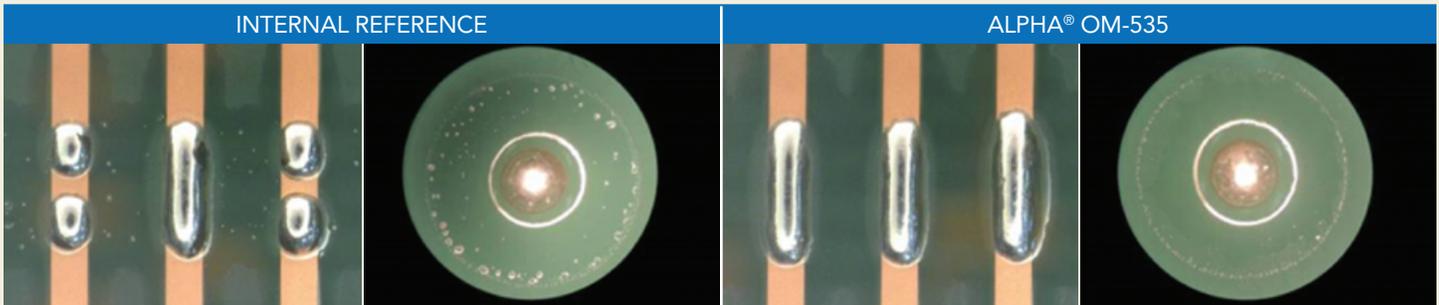
- A next generation eutectic alloy with improved drop shock performance (100% improvement in drop shock characteristic life compared to Sn42Bi57.6Ag0.4 alloy in a standard JEDEC Drop Test).
- SBX02 shows improved shear strength versus Sn42Bi57.6Ag0.4, after 1000 cycles, in a -40°C to 125°C, with a 10 min dwell.



* Zero Halogen is defined as no halogen intentionally added to the formulation.

ALPHA® OM-535 LEAD-FREE, ZERO HALOGEN* SOLDER PASTE

CROSS PRINT 0.7MM GAP LINE



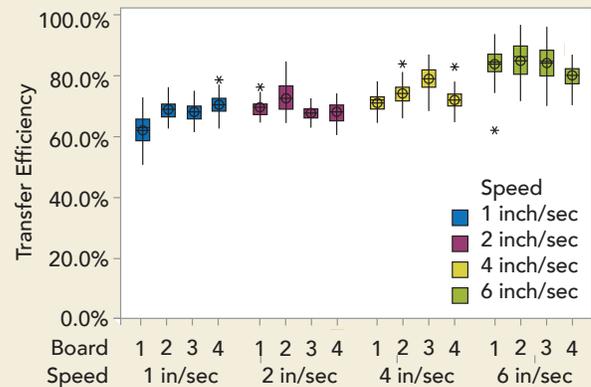
Improved solder balling performance

PERFORMANCE SUMMARY

PROCESS BENEFIT	PROPERTY	PERFORMANCE CAPABILITY
Print Process Window	Out of Jar / Response to Pause	Acceptable Out of Jar / Response to Pause Performance
	Stencil Life	Over 8 hours stencil life
	Print Speed Range	25–150mm/s (1-6 in/s)
Reflow Process Yield	Reflow Environment	Air and Nitrogen
	Resistance to Voids	Meets IPC 7095 Class I Requirements
	Random Solder Balls	Acceptable in Air per IPC-J-STD-005B
	Joint Cosmetics	Excellent Wettability
	Residue Profile	Pin Testable
	Finest Feature to Coalescence	8-mil circle and 8-mil square deposits
	Flux Residue Cosmetics	Clear
Electrical Reliability	SIR	Pass IPC-TM-650 (2.6.3.7) and Bellcore GR-78-CORE Issue 1
	Electromigration	Pass Bellcore GR-78-CORE Issue 1 and JIS Z 3197
	J-STD-004B Classification	ROLO (Halide-Free)
Environmental	Halogen Content	Zero Halogen (no halogen intentionally added)

ALPHA® OM-535 Print Volume Repeatability Chart

BGA56 (12 mil circles) – Area Ratio 0.60 – 5 mil Stencil



Excellent Print Volume Repeatability

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For more information about ALPHA® OM-535 Lead-Free, Zero Halogen Solder Paste, please contact your Alpha Representative.

AlphaAssembly.com

Global Headquarters
300 Atrium Drive
Somerset, NJ 08873
USA
Tel: +1-814-946-1611

European Headquarters
Unit 2, Genesis Business Park
Albert Drive, Woking, Surrey, GU21 5RW
UK
Tel: +44 (0) 1483 758400

Asia/Pacific
8/F, Paul Y. Centre, 51 Hung To Road
Kwun Tong, Kowloon
Hong Kong
Tel: 852-3190-3100