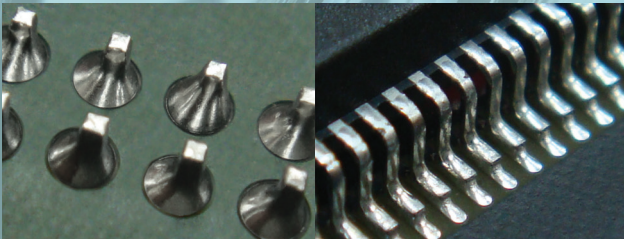


ALPHA® SnCX™ Plus 07 LEAD-FREE WAVE SOLDER AND REWORK ALLOY

HIGH PERFORMANCE AND RELIABILITY IN AN AG-FREE ALLOY



ALLOY PROPERTIES

	SnCX™ Plus 07
Temperature (°C)	229
Solidus Temperature (°C)	227
CTE 30-100°C (µm/m°C)	23.8
CTE 100-180°C (µm/m°C)	24.3
Density (g/cm ³)	7.30
Impact Energy (J)	51.2
Hardness (HV 0.2)	9.4

ALPHA® SnCX™ Plus 07 is a lead-free, Ag-free alloy that can be used as a replacement for SnPb, SAC305 and other low and no silver Pb-free alloys for wave and selective soldering, lead tinning, rework and HASL processes. It has been engineered to be a cost-effective alternative to silver bearing alloys in terms of soldering performance and reliability on certain types of electronic assemblies.

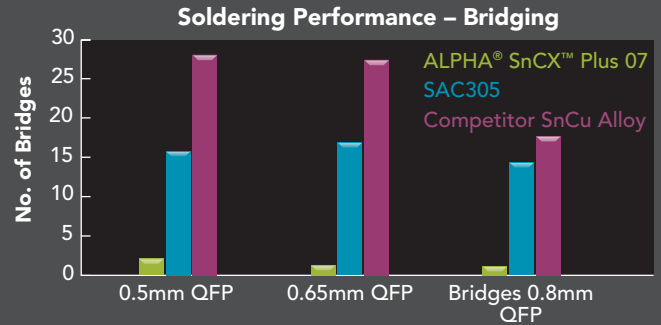
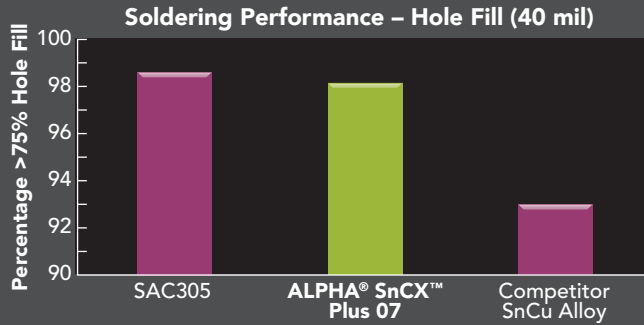


ALPHA® SnCX™ Plus 07 offers:

- Fast wetting with high wetting force
- Excellent production yields; lower cost of ownership
- Lowest in class dross generation and copper erosion
- Excellent mechanical reliability compared with other enhanced Ag-free alloys
- Smooth, bright solder fillets with no surface cracks

ALPHA® SnCX™ Plus 07 LEAD-FREE WAVE SOLDER AND REWORK ALLOY

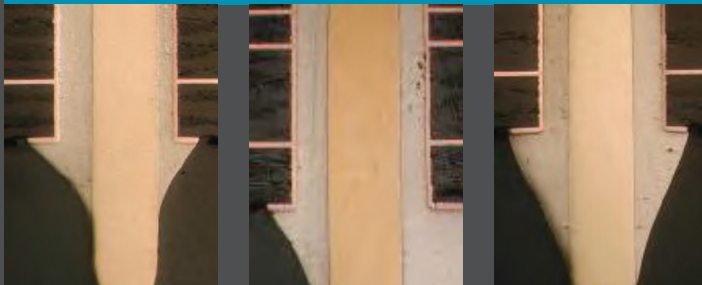
Excellent Soldering Performance = High Yield



Excellent soldering and bridging performance on standard thickness [0.062" (1.6mm)] boards using paper phenolic or FR4 laminates and metalized or OSP pad finishes. A wide process window may also be used including pot temperatures from 255°C and above along with various contact times and flux types.

High Reliability = Lower Field Failures

Through-hole Test Results



Thermal Aging

1,000 hours at 125°C

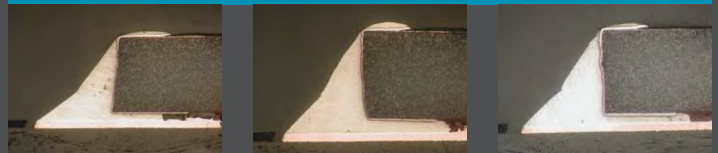
Thermal Shock

1,000 cycles of -25 to +85°C, 5 mins dwell, 30 mins total cycle time

Thermal Cycling

200 cycles of -25 to +125°C, 20 mins dwell, 55 mins total cycle time

SMT Test Results



Thermal Aging

1,000 hours at 125°C

Thermal Shock

1,000 cycles of -25 to +85°C, 5 mins dwell, 30 mins total cycle time

Thermal Cycling

200 cycles of -25 to +125°C, 20 mins dwell, 55 mins total cycle time

ALPHA® SnCX™ Plus 07 delivers excellent Thermal Fatigue Resistance

- No cracking observed in through-hole and SMT joints during testing under common conditions
- Uniform joint formation and consistent hole fill also observed

For more information about ALPHA® SnCX™ Plus 07 Lead-Free Wave Solder and Rework Alloy, please contact your Alpha Representative.

