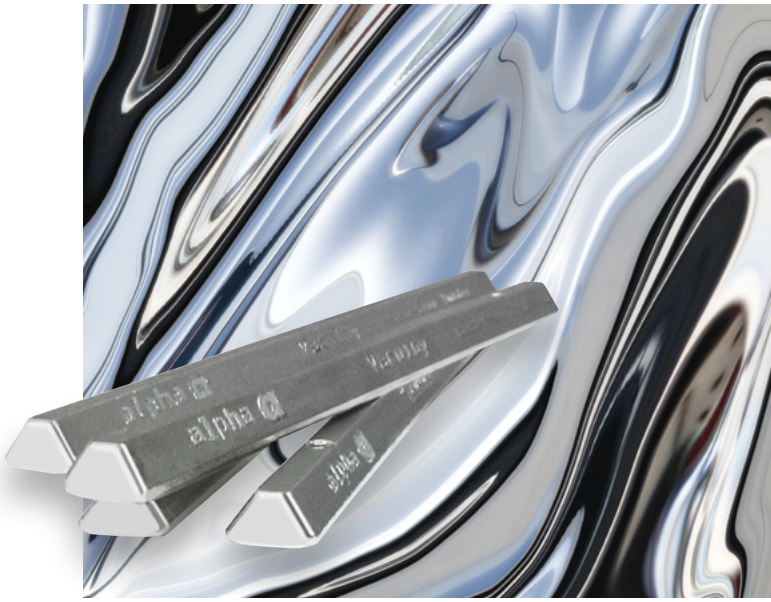
ALPHA® SnCX Plus 07

Silver Free Alloy for Wave and Selective Soldering

Silver Free and Lead Free Alloy for Simple to Moderately Complex Assemblies

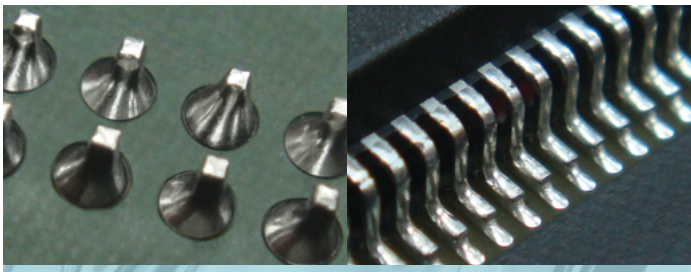
ALPHA SnCX Plus 07 is a low cost, high performance wave and selective soldering alloy for use on simple to moderately complex, dual sided assemblies. It is comprised of tin, copper and a small amount of additives to enhance the alloy properties.

Being silver free, **ALPHA SnCX Plus 07** is a **cost-effective** alternative to silver-bearing alloys. It can significantly reduce an assembler's Total Cost of Ownership without sacrificing soldering and reliability performance.

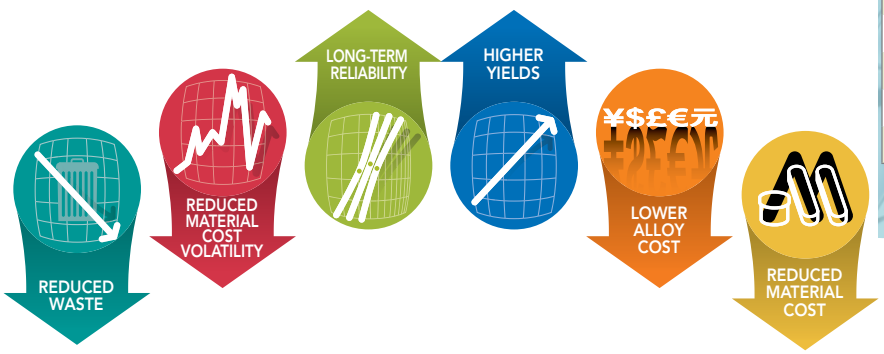


KEY FEATURES

- Excellent mechanical reliability compared with other enhanced silver free alloys.
- High copper erosion resistance.
- Excellent production yields.
- Lowest-in-class dross generation.
- Fast wetting with excellent hole fill.
- Smooth, bright solder fillets with no surface cracks.



ALLOY PROPERTIES	SnCX Plus 07
Melting Temperature (°C)	~227
CTE 30-100°C (µm/m°C)	23.8
CTE 100-180°C (µm/m°C)	24.3
Density (g/cm³)	7.30
Hardness (HV 0.2)	9.4



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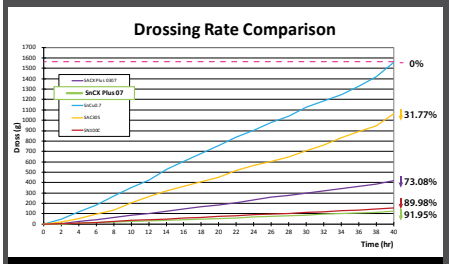
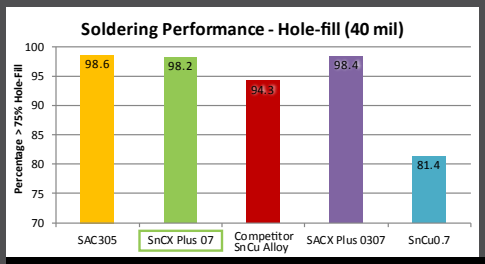
Silver Free Alloy for Wave and Selective Soldering

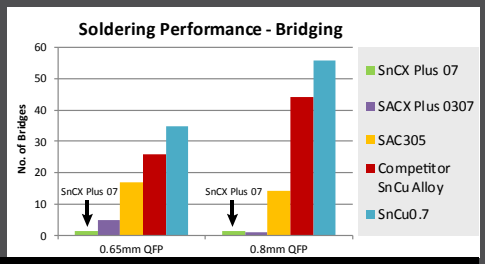
Excellent Soldering Performance = High Yield



Pot Temp = 260°C, Duration = 40 hours

ALPHA SnCX Plus 07 is engineered to deliver low dross rates.



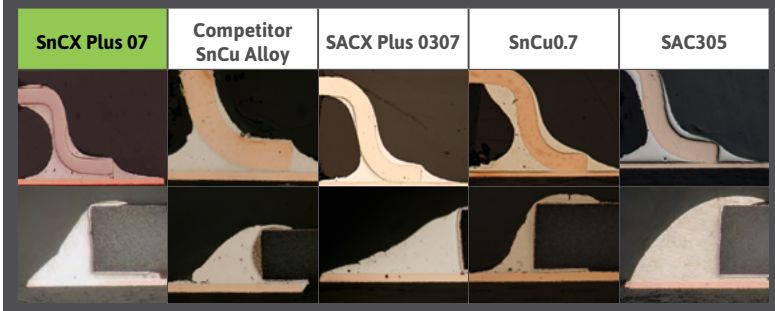


PH = 95°C, Pot Temp = 260°C, Contact Time = < 4 secs, Board Thickness = 2.4mm, OSP Coating

ALPHA SnCX Plus 07, with its proprietary additives, delivers low bridging and high hole fill performance than other low silver and high silver alloys.

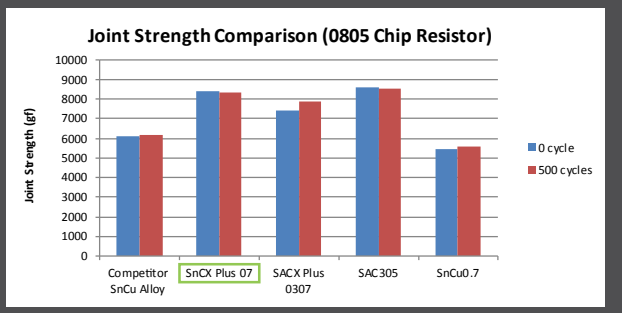
High Reliability = Lower Field Failures

Thermal Shock -25 to +85°C, 1,000 Cycles @ 5 mins dwell



No degradation was observed when ALPHA SnCX Plus 07 and other alloys tested.

Solder Joint Strength Test



ALPHA SnCX Plus 07 exhibits the highest joint strength among the silver free alloys.

MacDermid Alpha ELECTRONICS SOLUTIONS

SCAN THE CODE to know more

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