ECO+PLUS® series
Lead Free SOLUTIONS you can TRUST

Low Melting Point Lead Free Solder Paste

TB48 - M741

- Allows the use of a LOWER reflow profile than normally used for Tin/Lead solders.
- Greatly helps reduce the emissions of CO2. **ANTI-GLOBAL WARMING** solder paste.
- EXCELLENT WETTING and LOW VOIDING characteristics.

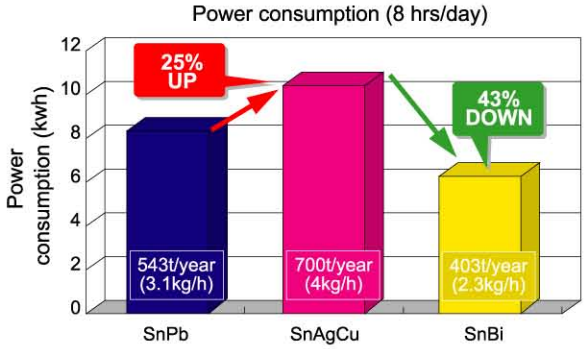
■ Increasing demand for LOW melting point solders

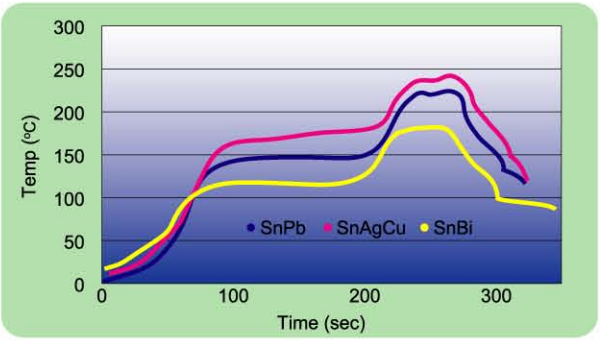
There are increasing demands for a high quality lower melting point alloy due to;

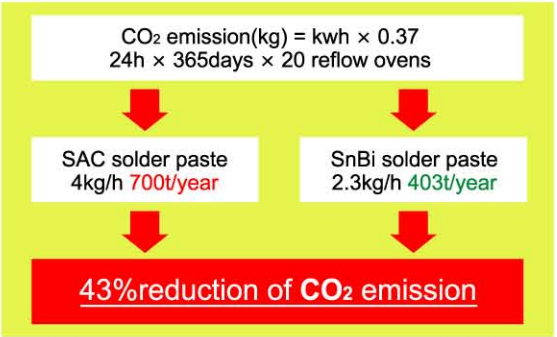
- Continual use of heat sensitive components and thinner PC boards.
- Inferior solderability may require a Nitrogen atmosphere to be used because of the excessive oxidation caused by the high temperature process.
- Need to reduce emissions of environmentally disruptive substances.
- Increased melting point of lead free solders requires higher heat energy and results in increased CO2 emissions.

Consequently, this low melting point solder alloy realizes an energy saving due to a lower thermal input requirement and as a result, a significant reduction in CO2 emissions.

Hot air reflow oven

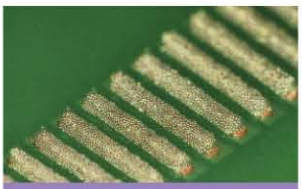




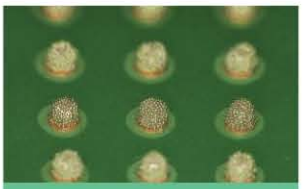


■ Printability (Laser cut stencil 120micron)

New flux formulation successfully prevents chemical reaction between solder and ensures consistent continual print performance.



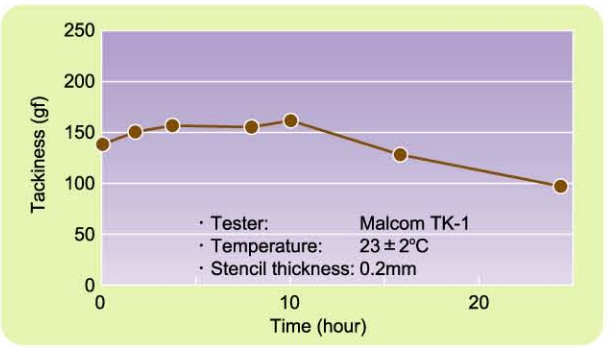
0.4mm pitch



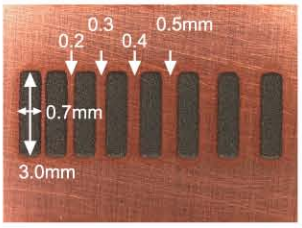
0.3mm diameter

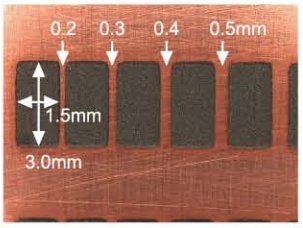
- 1st print after 200 strokes -

■ Tack time



■ Heat slump





・Heat profile : 120°C×5 min
・Test method : JIS Z 3284

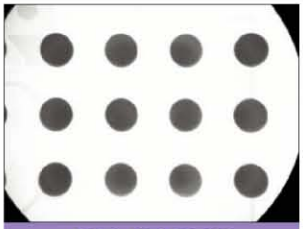
■ Solder wetting

Assures complete melting and a good wetting meniscus to super fine pattern components under air reflow.

0.25mm dia

0603 chip

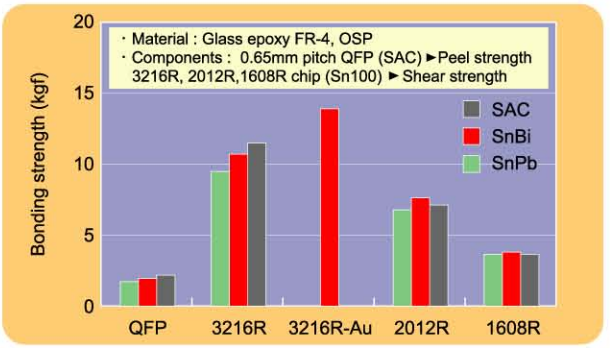
■ Voiding



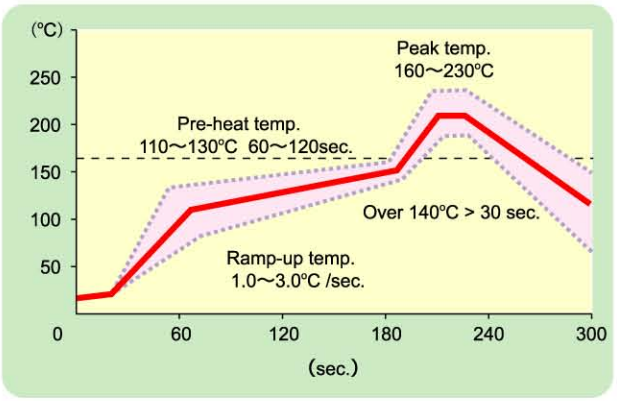
BGA (SAC305)

Power tr. (100Sn)

■ Bonding strength



■ Recommended reflow profile



■ Specifications

	Application	Printing - Stencil
	Products	TB48-M741
Alloy	Composition (%)	Sn42.0, Bi58.0
Alloy	Melting point (°C)	138 (eutectic)
Alloy	Particle size (μm)	20 - 45
Flux	Halide content (%)	0.0
Flux	Flux type	ROL0 (ANSI /J-STD-004)
Product	Flux content (%)	11.0
Product	Viscosity (Pa.S)	190
Product	Copper plate corrosion	Passed
Product	Tack time	> 16 hours
Product	Shelf life (below 10°C)	6 months

*Specifications are subject to change.

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