

LINQALLOY Bi58Sn42



Eutectic Solder Spheres

- Alloy Composition: Sn42Bi58
- Eutectic temperature: 138°C
- Eutectic Lead free solder spheres

LINQALLOY Bi58Sn42 low-temperature eutectic solder spheres are lead-free Bismuth-Tin alloys that contain 58% Bismuth (Bi), 42% Tin (Sn) and are often written as 58Bi42Sn, Sn42Bi58, or 42Sn58Bi. These solder Spheres are low-temperature, lead-free, eutectic solder spheres and are used by companies working with BGA, CSP, LBGA, PBGA and CBGA components who have made the transition to Lead-free (Pb-free) soldering.

Alloy composition

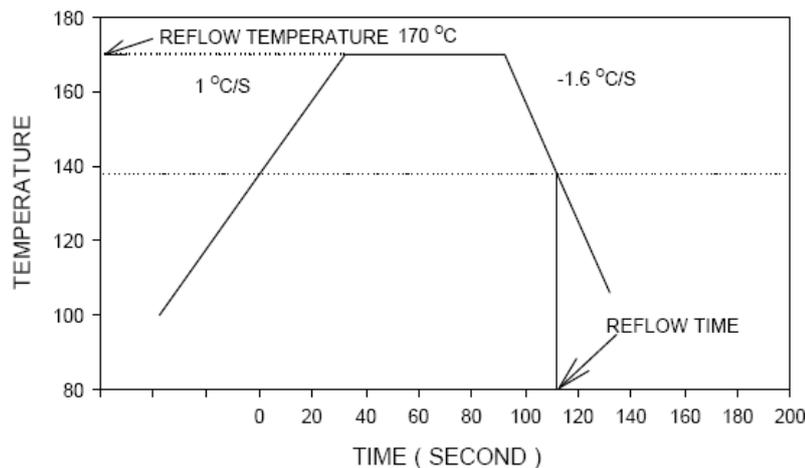
Element	Sn	Bi	Ag	Cu	As	Fe	Sb	Cd	Zn	Al	Pb
(% wt)	42	BL	0.01	0.03	0.03	0.02	0.05	0.003	0.001	0.001	0.03

Tolerance

Diameters (mm)	Tolerance (mm)
0.500 - 0.760	±0.020
0.270 - 0.450	±0.010
0.150 - 0.250	±0.005

Reflow profile

Please refer to the supplier temperature tolerances of your components and circuit boards. Please adjust the reflow profile to your process and application parameters.



Storage and Handling

Shelf life of the sealed ESD container at 25°C is 12 months. Ideal humidity is <60%RH.

Touching the spheres can lead to contamination and distortion of their shape and surface due to applied pressure and skin oils. Please handle with care.

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