

SnCu07-1102X

Lead-free Solder Bar

The SnCu07-1102X lead-free solder bar is crafted from top-grade tin ingots, along with high-quality silver and copper. It undergoes a specialized process using cutting-edge lead-free solder equipment and superior technology. It is designed to prevent the rapid expansion of micro cracks in the brittle interface structure, thus enhancing the creep fatigue life of the joint. This lead-free alloy solder bar offers exceptional welding performance and environmental protection in lead-free processes.

FEATURES

- There are few metal impurities and low oxide content, and the purity is extremely high.
- After melting, the tin liquid surface is smooth and flat, with low viscosity and excellent fluidity.
- Unique high oxidation resistance and very little tin slag.
- It has good wettability, low surface tension, easy soldering, bright and full solder spots, and stable and reliable welding quality.
- It is a green and environmentally friendly product that complies with RoHS and other environmental protection requirements.

APPLICATION

SnCu07-1102X lead-free solder strips are widely used in communication equipment, instrumentation equipment, audio and video multimedia equipment, automotive industry equipment, precision welding and special welding processes such as wave soldering and manual dip soldering for household electronic and electrical equipment and other reliable electronic products, as well as spraying, electroplating and other automatic mechanical welding.

TYPICAL PROPERTIES

Items	Technical indicators	Standards
Product number	SnCu07-1102X	/
Alloy composition	Sn99.3Cu0.7X	/
Exterior	Silver white trapezoidal cross-section long strip cast alloy	Visual
Melting point range (°C)	227	Alloy part
Density (g/cm ³)	7.31	Alloy part
RoHS	qualified	RoHS Directive
Shelf life	2 years	From MGF
Packing	1kg/bar, 20kg/carton	/

ALLOY COMPOSITION

No.	Items	CAS.No.	Content(%)
Main alloy composition and content			
1	Tin (Sn)	7440-31-5	Remain
2	Copper (Cu)	7440-50-8	0.7±0.1
3	Confidential Ingredients	/	0.01-0.15
Impurity composition and content			
4	Silver (Ag)	7440-22-4	≤0.10
5	Lead (Pb)	7439-92-1	≤0.10
6	Iron (Fe)	7439-89-6	≤0.02
7	Bismuth (Bi)	7440-69-9	≤0.10
8	Stibium (Sb)	7440-36-0	≤0.10
9	Indium (In)	7440-74-6	≤0.10
10	Zinc (Zn)	7440-66-6	≤0.001
11	Aurum (Au)	7440-57-5	≤0.05
12	Nickel (Ni)	7440-02-0	≤0.01
13	Aluminum (Al)	7429-90-5	≤0.001
14	Cadmium (Cd)	7440-43-9	≤0.002
15	Arsenic (As)	7440-38-2	≤0.003

CAUTIONS

- After being used for a period of time, the composition of the solder alloy will change, causing the welding performance and mechanical properties of the solder to decline. Pure tin must be used regularly. Make adjustments to the solder alloy. (It is recommended to adjust every 10-15 days).
- Set the welding temperature according to actual use needs. The recommended welding temperature is 260~280°C. (Actual measured temperature of solder in the furnace).

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.