

## SnCu07-1216

### Lead-free solder wire

SnCu07-1216 lead-free solder wire is made of high-quality and high-purity tin ingots as the main raw material, supplemented by high-quality and high-purity copper, and adopts the most advanced lead-free. Soldering professional equipment and excellent technology are refined through special processes. Specifically used with intelligent automatic tin adding machines in lead-free manufacturing processes. It is a lead-free alloy solder wire with excellent welding performance and environmental protection.

### FEATURE

- The coiled wire is neat, flat, smooth, evenly wound, and will not get tangled during routing.
- It is a green and environmentally friendly product that complies with RoHS and other environmental protection requirements.

### APPLICATION

- SnCu07-1216 lead-free alloy tin wire is specially used with automatic tin adding machines.

### TYPICAL PROPERTIES

Items	Technical parameters	Standards
Product number	SnCu07-1216	/
Alloy composition	Sn99.3Cu0.7	/
Exterior	Silver white, smooth and clean surface, no cracks	Visual
Diameter (mm)	3.00±0.10	GB/T 20422-2006 5.5
Melting point (°C)	227	/
shelf life	2 years	From the MGF Date
Packing	15kg/roll	Can be customized according to customer needs

### ALLOY COMPOSITIONS

No.	Items	CAS No	Content(%)
Main alloy composition and content			
1	Tin (Sn)	7440-31-5	margin
2	Copper (Cu)	7440-50-8	0.7±0.1
Impurity composition and content			
3	Silver (Ag)	7440-22-4	≤0.10
4	Lead (Pb)	7439-92-1	≤0.10
5	Iron (Fe)	7439-89-6	≤0.02
6	Bismuth (Bi)	7440-69-9	≤0.10
7	Antimony (Sb)	7440-36-0	≤0.10
8	Indium(Ln)	7440-74-6	≤0.10
9	Zinc (Zn)	7440-66-6	≤0.001
10	Gold (Au)	7440-57-5	≤0.05
11	Nickel (Ni)	7440-02-0	≤0.01
12	Aluminum (Al)	7429-90-5	≤0.001
13	Cadmium (Cd)	7440-43-9	≤0.002
14	Arsenic (As)	7440-38-2	≤0.03

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#### DIRECTION OF USE

- Based on the actual welding tin amount requirement, the tin adding machine selects an appropriate speed to avoid the phenomenon of non-melting tin.
- It is recommended that the temperature in the furnace be set at  $265\pm 5^{\circ}\text{C}$  to achieve the optimal melting state of the tin wire and reduce the occurrence of tin splashing.
- When adding tin, pay attention to setting the tin adding temperature of the tin adding machine and the liquid level in the furnace to avoid tin overflow.
- Clean the tin slag in the furnace regularly. The tin slag may interfere with the temperature control and liquid control probes of the tin adding machine.
- Keeping the welding atmosphere in a low-oxygen state can inhibit the oxidation of the base metal and tin wire, thereby improving the quality of tin welding. It is recommended that the conditions
- Where permitted, use nitrogen working atmosphere for welding.
- Personal protective equipment must meet work area safety regulations, and protective clothing and shields must be worn to protect against welding in the form of splashing solutions.
- Materials may cause burns. For more safety protection information, see the MSDS of this product.

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.