

SnCu3.0 Lead Free Solder Alloy



Product Description

SnCu3.0 is one of the high-performing Pb-free solder available in the industry. It can be used in dipping soldering process. Our years of manufacturing experience has enabled us to precisely control and set stringent operating parameters to produce high quality bars.

Application

SnCu3.0 can be used for dipping process. The operating temperature should be set > 350 °C, depending on applications.

Top-up Solder

SnCu3.0 is recommended as top-up solder.

Storage

Store the solder bar in a cool, dry and non-corrosive environment. Wrap up the solder bar when not in use to reduce exposure to environment. Solder bar can be kept for 5 years if proper storage conditions are observed.

Health & Safety

The product when use or handling maybe hazardous to health or environment. Please refer to Material Safety Data Sheet for more information.

Packaging

Solder Bar: 25kg per box, Solid Wire: 20kg per roll (Diameter: 0.25, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.6, 2.0 and 3.0 mm). For any other packaging requirements, please refer to the sales department.

Specification

Item	Result
Alloy Melting Temperature	227 - 322°C
DSC at 5 °C/min	
Density	7.33 g/cm ³
Water Displacement Method	
CTE	23.67 μm/ m/°C
Thermal Mechanical Analysis	
Mechanical Properties (As-Cast)	
Instron Series IX Automated	
Materials Test System	
ASTM E8M (3 mm/min at 23 °C)	

Tensile Strength	46.74 MPa
Yield Strength	37.44 MPa
Max Percent Strain	48.76 %
Energy to Yield Point	0.094 J
Energy to Break Point	13.43 J
Toughness	19.001 MPa

Alloy Composition

Main Composition		JIS Z 3282 Specs (wt%)
Tin	Sn	Remainder
Copper	Cu	3.0 +/- 0.5
Contamination		
Lead	Pb	0.05 max
Antimony	Sb	0.10 max
Bismuth	Bi	0.10 max
Indium	In	0.10 max
Silver	Ag	0.10 max
Aluminium	Al	0.001 max
Arsenic	As	0.03 max
Cadmium	Cd	0.002 max
Iron	Fe	0.02 max
Nickel	Ni	0.01 max
Zinc	Zn	0.001 max

DISCLAIMER OF LIABILITY

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