

SCS205 Lead Free Solder Alloy

For Top-up Purpose



Product Description

SCS205, is a top-up solder formulated specially for SCS705.

Application

SCS205 can be used for wave soldering, dipping and HASL processes. The operating temperature should be followed according to the application used on the SCS705.

Storage

Store the solder alloy in a cool, dry and non-corrosive environment. Wrap up the solder alloy when not in use to reduce exposure to environment. SCS205 lead free solder bar and solid wire 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	217 - 228°C
<small>DSC at 5°C/min</small>	
Density	7.30 g/cm ³
<small>Water Displacement Method</small>	
Surface Insulation Resistance	
<small>(85°C, 85%RH, 168hrs)</small>	
	> 1 x 10 ⁸ Ω, Pass
	> 1 x 10 ¹¹ Ω, Pass
Electromigration	Pass
<small>(85°C, 88.5%RH, 596hrs)</small>	
<small>IPC-TM-650 2.6.14.1</small>	

Alloy Composition

Main Composition		Asahi Specs (wt%)
Tin	Sn	Remainder
Copper	Cu	0.2 +/- 0.1
Silicon	Si	0.02 +/- 0.01
Silver	Ag	0.5 +/- 0.1
Contamination		
Aluminium	Al	0.005 max
Arsenic	As	0.03 max
Bismuth	Bi	0.10 max
Cadmium	Cd	0.002 max
Iron	Fe	0.02 max
Indium	In	0.10 max
Nickel	Ni	0.01 max
Lead	Pb	0.05 max
Antimony	Sb	0.05 max
Zinc	Zn	0.003 max

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