

Specifications for Asahi Sn60Pb40 (C-6) Core Wire

1) Alloy Composition: <i>Standard</i>	Sn60Pb40 <i>JIS Z 3282: 2006 (Wt%)</i>	
Sn	60 +/- 0.5	
Pb	Remainder	
Sb	0.20 max	
Bi	0.10 max	
Cd	0.002 max	
Cu	0.08 max	
Au	0.05 max	
In	0.10 max	
Ag	0.10 max	
Al	0.001 max	
As	0.03 max	
Fe	0.02 max	
Ni	0.01 max	
Zn	0.001 max	
2) Physical Characteristics:		
Specific Gravity	8.53	
Liquidus Temperature	191 °C	
Solidus Temperature	183 °C	
3) Core Flux Characteristics:	Specifications	Standards/ Test Methods
Flux Activity Classification	Water-Soluble	IPC J-STD-004A
Flux Content (wt%)	2.3 +/- 0.3	Singapore Asahi
Halide Content	>1 wt%	IPC-TM-650 2.3.35B
Copper Mirror Test	Pass	JIS Z 3197: 1999 8.1.4.2.2 IPC-TM-650 2.3.32
Spread Factor	>95% (Sn60Pb40)	JIS Z 3197: 1999 8.4.2
Surface Insulation Resistance (85°C / 85 %RH)	>1 x 10 ¹⁰ Ω (after washing)	JIS Z 3197: 1999 8.3.1.1 IPC-TM-650 2.6.3.3
Water Extract Resistivity	Infinity	JIS Z 3197: 1999 8.5.4 JIS Z 3197: 1999 8.1.1
4) Standard Packing:		
() 0.25 kg per roll. 100 rolls per carton		
() 0.5 kg per roll. 50 rolls per carton.		
() 1 kg per roll. 20 rolls per carton.		

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