

SN100Ce-SEL (SnCu0.4Ni0.02)

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 Language English
 SDS 950002



SUMMARY

The SN100Ce-SEL solder has been specially developed for the selective soldering process to counteract steadily increasing nickel and copper values.

ALLOY	SN100Ce-SEL (SnCu0.4Ni0.02)
PROCESS	
Leadfree	9
Leaded	1
First filling*	4
Refilling*	9

*follow Application Note

INDUSTRY APPLICATION	
Standard electronics	9
Industrial electronics	9
Hi-Rel electronics (automotive)	8

PROCESS CAPABILITY	
Wave soldering	8
Selective soldering	9
Dip soldering	8
Wire tinning	4
Process: Ambient	8
Process: N2 partial	9
Process: N2	9
Reduces dross	8
Reduces bridging	9
Improves PTH filling	9
Shiny joint appearance	9

Legend	
<i>Especially made for this purpose</i>	9 - 10
<i>Generally qualified for this purpose</i>	7 - 8
<i>Generally usable, but not the best choice</i>	5 - 6
<i>Generally not usable for this purpose</i>	3 - 4
<i>Wrong choice</i>	1 - 2

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

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PROPERTIES	
Manufacturing standard	BZ Spec. No. 020 : 2018
Alloy Code	SN100Ce-SEL
Alloy composition	SnCu0.4Ni0.02
ANSI/J-STD-006C: 2013	compliant
DIN EN ISO 9453:2021-01	-
Liquidus	[°C] 227
Solidus	[°C] 227
Recommended working range*	[°C] 260 - 320

*follow Application Note

COMPOSITION		
Tin	[Sn]	Remainder
Copper	[Cu]	0.3 - 0.4
Nickel	[Ni]	0.01 - 0.03
Germanium	[Ge]	0.005 - 0.007
Silver	[Ag]	max. 0.05
Aluminium	[Al]	max. 0.001
Arsenic	[As]	max. 0.03
Gold	[Au]	max. 0.03
Bismuth	[Bi]	max. 0.03
Cadmium	[Cd]	max. 0.002
Iron	[Fe]	max. 0.02
Indium	[In]	max. 0.03
Lead	[Pb]	max. 0.05
Antimony	[Sb]	max. 0.05
Zinc	[Zn]	max. 0.001

SHAPE AND DIMENSION*			
Ingot	1 kg	LxWxH [mm]	325x28x15
	3.7 kg	LxWxH [mm]	540x50/40x20
Ingot with loop	4 kg	LxWxH [mm]	515x50/48x22
	Bar	Rectangle	[mm]
Triangular		[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	ø	[mm]	1.0 - 6.0

*other dimensions on request