SN100Ce-SEL (SnCu0.4Ni0.02)

 Date
 2025.08.26

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

Legend		
Especially made for this purpose	9 - 10	
Generally qualified for this purpose		
Generally usable, but not the best choice		
Generally not usable for this purpose		
Wrong choice		

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

PROPERTIES			
Manufacturing standard	BZ Spec. N	BZ Spec. No. 020 : 2018	
Alloy Code	SN10	SN100Ce-SEL	
Alloy composition	SnCu(SnCu0.4Ni0.02	
ANSI/J-STD-006C: 2013	con	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	[AI]	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	[ln]	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
Ingot with loop	3.7 kg	LxWxH [mm]	540x50/40x20
	4 kg	LxWxH [mm]	515x50/48x22
Bar	Rectangle	[mm]	400x10x8
	Triangular	[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	0	[mm]	1.0 - 6.0

*other dimensions on request

Disclaimer:

This information is intended as advice to the best of our knowledge. The provided data is based on our own measurements, they do not provide any guaranteed properties nor are these delivery specifications. Due to the versatility of materials, applications and taking in consideration the industrial property rights of third parties, Balver Zinn Josef Jost GmbH & Co. KG cannot take any liability.

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