

SN100C3 (SnCu3Ni)

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 Language English  
 SDS 950002



SUMMARY

Alloy SN100C3 can be used at temperatures from 340°C to 420°C in static solder baths and selective soldering machines (mini-wave).

ALLOY	SN100C3 (SnCu3Ni)
<b>PROCESS</b>	
Leadfree	9
Leaded	1
First filling*	9
Refilling*	9

\*follow Application Note

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

PROCESS CAPABILITY	
Wave soldering	1
Selective soldering	6
Dip soldering	9
Wire tinning	10
Process: Ambient	8
Process: N2 partial	9
Process: N2	9
Reduces dross	8
Reduces bridging	8
Improves PTH filling	8
Shiny joint appearance	6

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	WBZ.: Triple X
Alloy Code	SN100C3
Alloy composition	SnCu3Ni
ANSI/J-STD-006C: 2013	not compliant
DIN EN ISO 9453:2021-01	-
Liquidus	[°C] 227
Solidus	[°C] 310
Recommended working range*	[°C] 340 - 420

\*follow Application Note

COMPOSITION		
Tin	[Sn]	Remainder
Copper	[Cu]	2.5 - 3.5
Nickel	[Ni]	0.04 - 0.06
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
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	ø	[mm]	1.0 - 6.0

\*other dimensions on request