## SN100C (SnCu0.7Ni)

 Date
 2021.05.10

 Language
 English

 SDS
 950002



## **SUMMARY**

Alloy SN100C is a tin-copper eutectic stabilized by nickel with additional doping of germanium to permanently reduce the oxidation of the solder.

ALLOY	SN100C (SnCu0.7Ni)	
PROCESS		
Leadfree		9
Leaded		1
First filling*		9
Refilling*		8

\*follow Application Note

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

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

Legend		
Especially made for this purpose	9 - 10	
Generally qualified for this purpose	7 - 8	
Generally usable, but not the best choice		
Generally not usable for this purpose		
Wrong choice	1 - 2	

Check material compatibility with every process change.

Read AN before use.

Read MSDS before use.

PROPERTIES			
Manufacturing standard	WBZ.:	WBZ.: Triple X	
Alloy Code	SN	SN100C	
Alloy composition	SnCu0.7Ni		
ANSI/J-STD-006C: 2013	compliant		
DIN EN ISO 9453:2021-01	Alloy 403		
Liquidus	[°C]	227	
Solidus	[°C]	227	
Recommended working range*	[°C]	260 - 320	

\*follow Application Note

COMPOSITION				
Tin	[Sn]	Remainder		
Copper	[Cu]	0.6 - 0.7		
Nickel	[Ni]	0.04 - 0.06		
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
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\*other dimensions on request

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