SN97C (SAC305)

 Date
 2021.05.10

 Language
 English

 SDS
 950005



## **SUMMARY**

Alloy SN97C is a standard alloy when high reliability is required.

ALLOY	SN97C (SAC305)	
PROCESS		
Leadfree		9
Leaded		1
First filling*		9
Refilling*		8

\*follow Application Note

INDUSTRY APPLICATION		
Standard electronics	6	
Industrial electronics	8	
Hi-Rel electronics (automotive)	9	

PROCESS CAPABILITY		
Wave soldering	9	
Selective soldering	8	
Dip soldering	6	
Wire tinning	1	
Process: Ambient	8	
Process: N2 partial	8	
Process: N2 vull tunnel	9	
Reduces dross	7	
Reduces bridging	8	
Improves PTH filling	9	
Shiny joint appearance	8	

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	SI	SN97C	
Alloy composition	SnAg	SnAg3Cu0.5	
ANSI/J-STD-006C: 2013	con	compliant	
DIN EN ISO 9453:2021-01	Allo	Alloy 711	
Liquidus	[°C]	220	
Solidus	[°C]	217	
Recommended working range*	[°C]	260 - 320	

\*follow Application Note

COMPOSITION		
Tin [5	Remainder	
Silver	g] 2.8 - 3.2	
Copper	u] 0.4 - 0.6	
Nickel	wij max. 0.01	
Germanium	e] -	
Aluminium	Aij max. 0.001	
Arsenic [4	s] max. 0.03	
Gold [A	u] max. 0.03	
Bismuth	max. 0.03	
Cadmium	max. 0.002	
Iron [i	e] max. 0.02	
Indium	n] max. 0.03	
Lead	b] max. 0.05	
Antimony	b] max. 0.05	
Zinc	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:

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