SCA0703 (SAC0307)

Date 2025.08.26 Language English **SDS** 950010



SUMMARY

Alloy SCA0703 is an inexpensive standard alloy when no special reliability requirements are made.

ALLOY	SCA0703 (SAC0307)	
PROCESS		
Leadfree		9
Leaded		1
First filling*		9
Refilling*		8

*follow Application Note

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

PROCESS CAPABILITY		
Wave soldering	9	
Selective soldering	9	
Dip soldering	8	
Wire tinning	4	
Process: Ambient	8	
Process: N2 partial	8	
Process: N2 vull tunnel	9	
Reduces dross	7	
Reduces bridging	8	
Improves PTH filling	8	
Shiny joint appearance	6	

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	SC.	SCA0703	
Alloy composition	SnCu	SnCu0.7Ag0.3	
ANSI/J-STD-006C: 2013	con	compliant	
DIN EN ISO 9453:2021-01	Allo	Alloy 501	
Liquidus	[°C]	227	
Solidus	[°C]	217	
Recommended working range*	[°C]	260 - 320	
		*follow Application Note	

COMPOSITION			
Tin	[Sn]	Remainder	
Copper	[Cu]	0.6 - 0.8	
Silver	[Ag]	0.2 - 0.4	
Nickel	[Ni]	max. 0.01	
Germanium	[Ge]	-	
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]	•
	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.