Sn63Pb37P

 Date
 2025.08.26

 Language
 English

 SDS
 950104



SUMMARY

Sn63Pb37P is a variant of the Sn63Pb37SW solder and is doped with phosphorus to reduce dross formation.

ALLOY	Sn63Pb37P	
PROCESS		
Leadfree		1
Leaded		9
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	9	
Selective soldering	9	
Dip soldering	9	
Wire tinning	8	
Process: Ambient	9	
Process: N2 partial	9	
Process: N2 vull tunnel	9	
Reduces dross	9	
Reduces bridging	9	
Improves PTH filling	9	
Shiny joint appearance	10	

Legend		
Especially made for this purpose	9 - 10	
Generally qualified for this purpose	7 - 8	
Generally usable, but not the best choice	5 - 6	
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.

Product contains SVHC substance Lead with more than 0,1 Mass%.

PROPERTIES			
Manufacturing standard	WBZ.	WBZ. BaTiLoy	
Alloy Code	Sn63	Sn63Pb37P	
Alloy composition	Sn6	Sn63Pb37	
ANSI/J-STD-006C: 2013	con	compliant	
DIN EN ISO 9453:2021-01	Allo	Alloy 102	
Liquidus	[°C]	183	
Solidus	[°C]	183	
Recommended working range*	[°C]	245 - 300	
		*follow Application Note	

*follow Application Note

COMPOSITION		
Lead	[Pb]	Remainder
Tin	[Sn]	62.5 - 63.5
Phosphorus	[P]	0.0015 - 0.004
Silver	[Ag]	max. 0.05
Copper	[Cu]	max. 0.08
Nickel	[Ni]	max. 0.01
Aluminium	[AI]	max. 0.001
Arsenic	[As]	max. 0.03
Gold	[Au]	max. 0.05
Bismuth	[Bi]	max. 0.05
Cadmium	[Cd]	max. 0.002
Iron	[Fe]	max. 0.02
Indium	[ln]	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]	•
Bar	Rectangle	[mm]	400x10x8
	Triangular	[mm]	400x10x10
Pellet		[mm]	12x25
Solid wire	Ø	[mm]	1.0 - 6.0

*other dimensions on request

Dicelaimer

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.

Rev: 21 5