Product data sheet

BALVER ZINN®

Sn63Pb37P

Rev: 21.5

Date	2021.05.11
Language	English
SDS	950102

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	3 - 4
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%.

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.

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

*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	[Al]	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	[In]	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	⌀	[mm]	1.0 - 6.0

*other dimensions on request