Product data sheet

BALVER ZINN®

Sn63Pb37SW

Rev: 21.5

Date 2021.05.11

Language English

SDS 950102

BALVERZINN.COM

SUMMARY

Alloy Sn63Pb37SW is a leaded standard alloy for use in wave soldering, selective soldering and dip tinning.

ALLOY	Sn63Pb37SW
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	8
Process: N2 partial	9
Process: N2	9
Reduces dross	8
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%.

PROPERTIES		
Manufacturing standard	WBZ. BaTiLoy	
Alloy Code	Sn63Pb37SW	
Alloy composition	Sn63Pb37	
ANSI/J-STD-006C: 2013	compliant	
DIN EN ISO 9453:2021-01	Alloy 102	
Liquidus	[°C]	183
Solidus	[°C]	183
Recommended working range*	[°C]	245 - 300

*follow Application Note

COMPOSITION		
Lead	[Pb]	Remainder
Tin	[Sn]	62.5 - 63.5
Phosphorus	[P]	max. 0.001
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