Product data sheet

2021.05.10

English

950002

Date

SDS

Language

SN100CLeS (SnNiGe)



SUMMARY

SN100CLeS copper-reduced solder is the replenishment alloy for SN100CLS solder to keep the solder bath within the process limits.

ALLOY	SN100CLeS (SnNiGe)		
PROCESS			
Leadfree		9	
Leaded		1	
First filling*		1	
Refilling*		9	
	*follow Appl	cation Note	
INDUSTRY APPLICATION			
Standard electronics		9	
Industrial electronics		9	
Hi-Rel electronics (automotive)		9	
PROCESS CAPABILITY			
Wave soldering		1	
Selective soldering		1	
Dip soldering		6	
Wire tinning		6	
Process: Ambient		9	
Process: N2 partial		N/A	
Process: N2 vull tunnel		N/A	
Reduces dross		9	
Reduces bridging		9	
Improves PTH filling		N/A	
Shiny joint appearance	0	9	

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.

PROPERTIES		
Manufacturing standard	WBZ.: Triple X	
Alloy Code	SN100CLeS	
Alloy composition	SnNiGe	
ANSI/J-STD-006C: 2013	not compliant	
DIN EN ISO 9453:2021-01		-
Liquidus	[°C]	227
Solidus	[ºC]	227
Recommended working range*	[ºC]	260 - 320
		*follow Application No

COMPOSITION		
Tin	[Sn]	Remainder
Copper	[Cu]	max. 0.2
Nickel	[Ni]	0.04 - 0.06
Germanium	[Ge]	0.009 - 0.011
Silver	[Ag]	max. 0.05
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]	400x10x8	
	Triangular	[mm]	400x10x10	
Pellet		[mm]	12x25	
Solid wire	ø	[mm]	1.0 - 6.0	

*other dimensions on request

Disclaimer:

Read AN before use. Read MSDS before use.

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.

BALVER ZINN®