

Product data sheet

BALVER ZINN®

SN100CV-LF2220NC

Rev: 19.3

Date 2025.09.04
Language English
SDS 950229



SUMMARY

The REL0 classified, halide-free, no-clean solder wire LF2220NC has been specially developed for lead-free repair and rework soldering.

Solder Wire	SN100CV-LF2220NC
PROCESS	
No-Clean process	9
Post-solder cleaning	8
Water soluble	1

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

PROCESS CAPABILITY	
Manual soldering	9
Robot soldering	9
Laser soldering	7
Wetting properties	9
Wetting time	9
Solderball formation	7
Flux spattering	7
Smoke formation	8
Tip lifetime	8
Shiny joint appearance	8
Cosmetic cleanliness	9
ICCT compatible	9
Conformal coating	7

Legend	
<i>Especially made for this purpose</i>	9 - 10
<i>Generally qualified for this purpose</i>	7 - 8
<i>Generally usable, but not the best choice</i>	5 - 6
<i>Generally not usable for this purpose</i>	3 - 4
<i>Wrong choice</i>	1 - 2

Check material compatibility with every process change!

Industrial chemical product.

Read MSDS before use.

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.

CLASSIFICATION	
DIN-EN-ISO-9454-1: 2016	1222
IPC-J-STD-004-A: 2004	REL0

PROPERTIES		
Flux code	2220	
Alloy code	SN100CV	
Alloy composition	SnBi1.5Cu0.7	
Liquidus	[°C]	225
Solidus	[°C]	221
Recommended soldering temp.	[°C]	330 - 380
Acid number	[mg KOH/g]	201
Flux content	[% w/w]	2.2
Residues		Colorless

TEST REPORTS			
Certificate of Compliance			Website
Declaration of Conformity 2011/65/EU (RoHS)			Website
Application Note			EN/DE
Copper Mirror	IPC-TM-650 2.3.32		Pass
Halides	IPC-TM-650 2.3.33	[Silver Chromate]	Pass
Halide	IPC-TM-650 2.3.35.1	[Fluoride by Spot]	Pass
Copper Corrosion	IPC-TM-650 2.6.15		Pass
SIR	IPC-TM-650 2.6.3.3		Pass
ECM	IPC-TM-650 2.6.14.1		Pass

PACKAGING AND STORAGE		
Reels		
Label	K63	BZ
Weight [kg]	0.4	0.25 / 0.5 / 1.0
Height [mm]	63	80
External diameter [mm]	63	76
Internal diameter [mm]	11	30
Reels per carton	10	10
Standard wire diameter [mm]	∅	0.3 - 3.5
Minimum shelf-life in months	20-25 °C	60