

# Product data sheet

# BALVER ZINN®

## SN100CV-Brilliant-B2012

Rev: 19.3

**Date** 2021.11.15  
**Language** English  
**SDS** 950201



### SUMMARY

The ROL0 classified, halide-free, no-clean solder wire Brilliant B2012 is specifically designed for lead-free repair and rework soldering.

Solder Wire	SN100CV-Brilliant-B2012
<b>PROCESS</b>	
No-Clean process	9
Post-solder cleaning	9
Water soluble	1

<b>INDUSTRY APPLICATION</b>	
Standard electronics	8
Industrial electronics	9
Hi-Rel electronics (automotive)	9

<b>PROCESS CAPABILITY</b>	
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	7
Cosmetic cleanliness	9
ICCT compatible	9
Conformal coating	7

<b>Legend</b>	
<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	1231
IPC-J-STD-004-A: 2004	ROL0

### PROPERTIES

Flux code	B2012	
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]	220
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

<b>Reels</b>		
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]	ø	0.3 - 3.5
Minimum shelf-life in months	20-25 °C	60