

Product data sheet

BALVER ZINN®

SCA0703-Brilliant-B2012

Rev: 12.11

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Language English
SDS 950202



SUMMARY

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

Solder Wire	SCA0703-Brilliant-B2012
PROCESS	
No-Clean process	9
Post-solder cleaning	9
Water soluble	1

INDUSTRY APPLICATION	
Standard electronics	9
Industrial electronics	8
Hi-Rel electronics (automotive)	6

PROCESS CAPABILITY	
Manual soldering	9
Robot soldering	8
Laser soldering	7
Wetting properties	9
Wetting time	8
Solderball formation	7
Flux spattering	7
Smoke formation	8
Tip lifetime	8
Shiny joint appearance	6
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	1231
IPC-J-STD-004-A: 2004	ROL0

PROPERTIES		
Flux code	B2012	
Alloy code	SCA0703	
Alloy composition	SnCu0.7Ag0.3	
Liquidus	[°C]	227
Solidus	[°C]	217
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		
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]	ø	0.3 - 3.5
Minimum shelf-life in months	20-25 °C	60