

## SN97C Brilliant B2012 StarCore

Rev: PRELIMINARY

Date	2021.10.28
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	SN97C Brilliant B2012 StarCore
<b>PROCESS</b>	
No-Clean process	9
Post-solder cleaning	9
Water souble	1

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

PROCESS CAPABILITY	
Manual soldering	9
Robot soldering	9
Laser soldering	8
Wetting properties	9
Wetting time	9
Solderball formation	8
Flux spattering	9
Smoke formation	8
Tip lifetime	8
Shiny joint appearance	9
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.

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## CLASSIFICATION

DIN-EN-ISO-9454-1: 2016	1231
IPC-J-STD-004-A: 2004	ROL0

## PROPERTIES

Flux code	B2012	
Alloy code	SN97C	
Alloy composition	SnAg3Cu0.5	
Liquidus	[°C]	217
Solidus	[°C]	220
Recommended soldering temp.	[°C]	320 - 370
Acid number	[mg KOH/g]	220
Flux content	[% w/w]	2.2
Residues	Colorless	

## TEST REPORTS

Certificate of Compliance			Website
RoHS Compliant			No
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	63/37	BZ	K80
Weight [kg]	0.25 / 0.4	0.5 / 1.0	0.4 / 0.8
Height [mm]	63	80	80
External diameter [mm]	63	76	80
Internal diameter [mm]	11	30	16
Reels per carton	10	10	10
Standard wire diameter [mm]	ø		0.3 - 3.5
Minimum shelf-life in months	4-10 °C		60