Product data sheet

BALVER ZINN®

94-SEL

Rev: 15.1

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Language English
SDS 950406

BALVERZINN.COM

Summary

94-SEL is a REL0 classified, partially water based flux for selective soldering. It is based on synthetic resins and is suitable for high reliability applications.

Flux code	94-SEL
PROCESS	
No-Clean process	9
Post-solder cleaning	7

INDUSTRY APPLICATION	
Consumer electronics	6
Standard industrial electronics	9
Hi-Rel electronics (automotive)	9

PROCESS CAPABILITY	
Dip Soldering	8
Drag soldering	9
Dropjet fluxing	9
High Pre-heat compatible	9
High soldering temp compatible	9
Long contact time compatible	8
Reduces spreading of flux	8
Reduces solderballing	9
Reduces bridging	8
Improves TH filling	8
Brilliant joint appearance	9
Cosmetic Cleanliness	8
ICCT compatible	9
Conformal coating compatible	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

CLASSIFICATION	
DIN EN 29454-1: 1994	1.2.3.A
IPC-J-STD-004-A: 2004	REL0

PROPERTIES		
Density	@20°C [kg/dm³]	0.848
Acid number	[mg KOH/g]	13.9
Solid content	[% w/w]	2.6
Water content	[% w/w]	21
VOC content	[% w/w]	Remainder
Filmformer(s)		Resin
Color		Colorless
Odor		Mild alcoholic
Flashpoint COC	[°C]	16.5
Thinners		308-00

TEST REPORTS			
Certificate of Compliance			website
Application Note			english
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		N/A
SIR	IPC-TM-650 2.6.3.3		Pass
ECM	IPC-TM-650 2.6.14.1		Pass

PACKAGING AND STORAGE		
Packaging bottle (HDPE) [liter]	(HDPE) [liter]	1
Packaging can (HDPE) [liter]	(HDPE) [liter]	5 / 10
Recommended shelf-life in Months		
Storage temperature	20-25 °C	9

Check material compatibility with every process change!

Industrial chemical product.

Read MSDS before use.