

# Product Data Sheet

# BALVER ZINN<sup>®</sup>

## 385-D

Rev: 17.1

<b>Date</b>	2021.08.18
<b>Language</b>	English
<b>SDS</b>	950309



### Summary

385-D is a REL0 classified, alcohol-based flux for high reliability automotive applications under nitrogen atmosphere. It is based on synthetic resins and exhibits minimized dendrite formation.

Flux code	385-D
<b>PROCESS</b>	
No-Clean process	9
Post-solder cleaning	4

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

PROCESS CAPABILITY	
Foam fluxing	6
Spray fluxing	9
Short preheat	9
Short contact time	9
Pb-free process Air	6
Pb-free process N2 wave	8
Pb-free process N2 tunnel	9
Skipped joints	8
Solderballing	8
Bridging	8
Promotes wicking	8
PTH filling	8
Cosmetic cleanliness	8
Cosmetic cleanliness N2	9
Shiny joint appearance	8
Pin testability	9
Conformal coating (see AN)	9

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

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

PROPERTIES		
Density	@ 20°C [kg/dm <sup>3</sup> ]	0.804
Solid content	[% w/w]	2.7
Acid number	[mg KOH/g]	18.8
Water content	[% w/w]	1
VOC content	[% w/w]	Remainder
Filmformer(s)		Synthetic
Color		Colorless
Odor		Alcoholic
Flashpoint COC	[°C]	11.9
Thinners		425-00

TEST REPORTS			
Certificate of Compliance		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		
Packaging can	(HDPE) [liter]	10
Packaging Drum	(HDPE) [liter]	200
Shelf-life in months	20-25 °C	12

**Check material compatibility with every process change!**  
**Industrial chemical product.**  
**Read SDS 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.