

# Product data sheet

**BALVER ZINN<sup>®</sup>**  
**COBAR<sup>®</sup>**

**Product** OT2-SN63-T3

**Date** 2015.03.26

**Release** 15.2

**Language** English

**Solder paste**

Legend	
5	<i>Especially made for this purpose</i>
4	<i>Generally qualified for this purpose</i>
3	<i>Generally usable, but not the best choice</i>
2	<i>Generally not usable for this purpose</i>
1	<i>Wrong choice</i>

PASTE	OT2-SN63-T3	
<b>PROCESS</b>		
No-Clean process	5	
Post-solder cleaning	5	
Vapor phase process	4	
<b>INDUSTRY APPLICATION</b>		
Consumer electronics	5	
Standard industrial electronics	5	
Hi-Rel electronics (automotive)	5	
<b>PCB CAPABILITY</b>		
Fine-pitch (= < 0.5mm)	5	
OSP compatible	5	
Ni/Au compatible	5	
Ag/Pd compatible	4	
Ni/Pd compatible	4	
Ag compatible	5	
Sn compatible	5	
<b>PROCESS CAPABILITY</b>		
Pb-free Profile Air, short	5	
Pb-free Profile Air, long	5	
Pb-free process N2	5	
Squeegee	5	
ProFlow	4	
Rheopump	TBD	
Dispensing [>awg 22]	3	
Short cycle time	5	
Long stencil-life	4	
Long open time	4	
Sharp print definition	5	
Reduces dog ears	4	
Reduces smearing	4	
Reduces stencil wiping	5	
Reduces solderballing	4	
Reduces solder beading	4	
Reduces bridging	5	
Reduces tombstoning	4	
Reduces de-wetting	5	
Reduces slumping	4	
Reduces voiding	4	
Brilliant joint appearance	5	
Cosmetic cleanliness	5	
ICCT compatible	5	
Conformal coating	4	

ALLOY CODE	ALLOY COMPOSITION
SN63	Sn63Pb37
	<b>SUMMARY</b>
	SnPb - Premium latest technology No-Clean solder paste - Halide/Halogen free

CLASSIFICATION	
ISO 9454-1	1.1.3.C
IPC-J-STD-004	ROLO
IPC-J-STD-005 (Powder)	T3
IPC-J-STD-004 Revision	A

IPC-J-STD-004 classification excluding 2.6.15

Alloy code	
Flux code	OT2
Particle class acc. IPC	Type 3
Particle size	[µm] 25-45

PROPERTIES		
Liquidus	[°C]	183
Solidus	[°C]	183
Recommended peak temp.	[°C]	205-225
Oxide content powder	[ppm]	<1500
Acid number	[mg KOH] (+/-5%)	142,9
Halides	[Silver-Chromate Test]	Pass
Halides	[Potentiometric]	Pass
Flux	[% w/w]	10,9
Metal	[% w/w]	89,1
Filmformer(s)		0 Rosin
Color of the residue		0 Colorless
Viscosity @ 25°C [Pa.s]		
Plate/Plate	[Pas] (+/- 18%)	105
Malcom PCU205	[Pas] (+/- 18%)	95
Max. speed	[mm/s]	200
Rec.separation speed	[mm/s]	10
Tackiness time	@ 20 °C / 70% RH [h]	8
Tackiness force Malcom TK1	[gf] @ 0h	90

TEST REPORTS	
Telcordia GR-78-CORE	Compliant
IPC/ANSI-J-STD-005	Compliant
Certificate of Compliance	Website
SPC-data	Auditable
RoHS-Compliant	No
User's Guidelines	EN/DE

PACKAGING AND STORAGE	
Packaging jar	500
Packaging cartridge	650
Packaging cartridge	1300
Packaging Cassette Pro-Flow	800

Recommended shelf-life in months		
Storage temperature	4-10 °C	5
Storage temperature	18-25 °C	2

**Check material compatibility with every process change!**  
**Industrial chemical product.**  
**Read MSDS before use.**

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