

Product data sheet

Product **Various**  
 Date various  
 Release various **Solder paste**  
 Language **English**

# BALVER ZINN<sup>®</sup>

## COBAR<sup>®</sup>

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-SAC3-T3	OT2-SN100C-T3	OT2-SCANGe071-T3	
<b>PROCESS</b>				
No-Clean process	5	5	5	
Post-solder cleaning	5	5	5	
Vapor phase process	3	3	5	
<b>INDUSTRY APPLICATION</b>				
Consumer electronics	4	5	4	
Standard industrial electronics	5	5	5	
Hi-Rel electronics (automotive)	5	4	4	
<b>PCB CAPABILITY</b>				
Fine-pitch (= < 0.5mm)	5	5	5	
OSP compatible	5	5	5	
Ni/Au compatible	5	5	5	
Ag/Pd compatible	4	4	4	
Ni/Pd compatible	4	4	4	
Ag compatible	5	5	5	
Sn compatible	5	5	5	
<b>PROCESS CAPABILITY</b>				
Pb-free Profile Air, short	5	5	5	
Pb-free Profile Air, long	5	5	5	
Pb-free process N2	5	5	5	
Squeegee	5	5	5	
ProFlow	4	4	4	
Rheopump	TBD	TBD	TBD	
Dispensing [>awg 22]	3	3	3	
Short cycle time	5	5	5	
Long stencil-life	4	4	4	
Long open time	4	4	4	
Sharp print definition	5	5	5	
Reduces dog ears	4	4	4	
Reduces smearing	4	4	4	
Reduces stencil wiping	5	5	5	
Reduces solderballing	4	4	4	
Reduces solder beading	4	4	4	
Reduces bridging	5	5	5	
Reduces tombstoning	4	4	5	
Reduces de-wetting	5	5	5	
Reduces slumping	4	4	4	
Reduces voiding	4	4	4	
Brilliant joint appearance	4	5	3	
Cosmetic cleanliness	5	5	5	
ICCT compatible	5	5	5	
Conformal coating	4	4	4	

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CLASSIFICATION	OT2-SAC3-T3	OT2-SN100C-T3	OT2-SCANGe071-T3	-
ISO 9454-1	1.1.3.C	1.1.3.C	1.1.3.C	
IPC-J-STD-004	ROL0	ROL0	ROL0	
IPC-J-STD-005 (Powder)	T3	T3	T3	

ALLOY CODE				
Flux code	OT2	OT2	OT2	
Alloy code	SAC3	SN100C	SCANGe071	
Particle class acc. IPC	Type 3	Type 3	Type 3	
Particle size [µm]	25-45	25-45	25-45	

PROPERTIES				
Liquidus [°C]	219	227	225	
Solidus [°C]	217	227	217	
Recommended peak temp. [°C]	232-260	238-260	232-260	
Oxide content powder [ppm]	<1500	<1500	<1500	
Acid number [mg KOH] +/- 5%	139,5	139,5	139,5	
Halides [Silver-Chromate Test]	Pass	Pass	Pass	
Halides [Potentiometric]	Pass	Pass	Pass	
Flux [% w/w]	12	12,07	12,05	
Metal [% w/w]	88	87,93	87,95	
Filmformer(s)	Rosin	Rosin	Rosin	
Color of the residue	Colorless	Colorless	Colorless	
Viscosity @ 25°C [Pa.s]				
Plate/Plate Tol+/-[%] 18	125	125	125	
Malcom PCU205 Tol+/-[%] 18	115	115	115	
Max. speed [mm/sec]	200	200	200	
Rec.separation speed [mm/sec]	10	10	10	
Tackiness time 20°C/70%RH [H]	8	8	8	
Tackiness force Malcom TK1 [gr]	120	120	120	

TEST REPORTS				
Telcordia GR-78-CORE	Compliant	Compliant	Compliant	
IPC/ANSI-J-STD-005	Compliant	Compliant	Compliant	
Certificate of Compliance	Website	Website	Website	
SPC-data	Auditable	Auditable	Auditable	
RoHS-Compliant	Available	Available	Available	
User's Guidelines	English	English	English	

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

Recommended shelf-life in months				
Storage temperature 4-10 °C	12	12	12	
Storage temperature 18-25 °C	6	6	6	

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