

Product data sheet

BALVER ZINN[®]
COBAR[®]

Product OT2-SAC0307-T3

Date PRELIMINARY

Release 16.1

Solder paste

Language English

| 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> |

| ALLOY CODE | ALLOY COMPOSITION |
|------------|--|
| SAC0307 | Sn99Ag0.3Cu0.7 |
| | SUMMARY Pb-free - Low Silver, No-Clean solder paste - Anti tombstoning - Halide/Halogen free |

| PASTE | OT2-SAC0307-T3 |
|---------------------------------|----------------|
| PROCESS | |
| No-Clean process | 5 |
| Post-solder cleaning | 5 |
| Vapor phase process | 5 |
| INDUSTRY APPLICATION | |
| Consumer electronics | 5 |
| Standard industrial electronics | 5 |
| Hi-Rel electronics (automotive) | 4 |
| PCB CAPABILITY | |
| 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 |
| PROCESS CAPABILITY | |
| 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 | 5 |
| Reduces de-wetting | 5 |
| Reduces slumping | 4 |
| Reduces voiding | 4 |
| Brilliant joint appearance | 3 |
| Cosmetic cleanliness | 5 |
| ICCT compatible | 5 |
| Conformal coating | 4 |

| CLASSIFICATION | |
|------------------------|---------|
| ISO 9454-1 | 1.1.3.C |
| IPC-J-STD-004 | ROL0 |
| 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] | 227 |
| Solidus | [°C] | 217 |
| Recommended peak temp. | [°C] | 232-260 |
| Oxide content powder | [ppm] | <1500 |
| Acid number | [mg KOH] (+/-5%) | 139.5 |
| Halides | [Silver-Chromate Test] | Pass |
| Halides | [Potentiometric] | Pass |
| Flux | [% w/w] | 12.1 |
| Metal | [% w/w] | 88.0 |
| Filmformer(s) | 0 | Rosin |
| Color of the residue | 0 | Colorless |
| Viscosity @ 25°C [Pa.s] | | |
| Plate/Plate | [Pas] (+/- 18%) | 125 |
| Malcom PCU205 | [Pas] (+/- 18%) | 115 |
| 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 | 120 |

| TEST REPORTS | |
|---------------------------|-----------|
| IPC/ANSI-J-STD-005 | Compliant |
| Certificate of Compliance | Website |
| SPC-data | Auditable |
| RoHS-Compliant | Available |
| 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 | 12 |
| Storage temperature | 18-25 °C | 6 |

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

Disclaimer:

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