

# Product data sheet

# BALVER ZINN®

## SN96C-LF2220NC

Rev: 04.9

**Date** 2025.09.04  
**Language** English  
**SDS** 950216



### SUMMARY

The REL0 classified, halide-free, no-clean solder wire LF2220NC has been specially developed for lead-free repair and rework soldering.

| Solder Wire          | SN96C-LF2220NC |
|----------------------|----------------|
| <b>PROCESS</b>       |                |
| No-Clean process     | 9              |
| Post-solder cleaning | 8              |
| Water soluble        | 1              |

|                                 |   |
|---------------------------------|---|
| <b>INDUSTRY APPLICATION</b>     |   |
| Standard electronics            | 6 |
| Industrial electronics          | 8 |
| Hi-Rel electronics (automotive) | 9 |

|                           |   |
|---------------------------|---|
| <b>PROCESS CAPABILITY</b> |   |
| Manual soldering          | 9 |
| Robot soldering           | 9 |
| Laser soldering           | 7 |
| Wetting properties        | 9 |
| Wetting time              | 9 |
| Solderball formation      | 7 |
| Flux spattering           | 7 |
| Smoke formation           | 8 |
| Tip lifetime              | 8 |
| Shiny joint appearance    | 7 |
| Cosmetic cleanliness      | 9 |
| ICCT compatible           | 9 |
| Conformal coating         | 7 |

|                                                  |        |
|--------------------------------------------------|--------|
| <b>Legend</b>                                    |        |
| <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  |

**Check material compatibility with every process change!**

**Industrial chemical product.**

**Read MSDS 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.

|                         |      |
|-------------------------|------|
| <b>CLASSIFICATION</b>   |      |
| DIN-EN-ISO-9454-1: 2016 | 1222 |
| IPC-J-STD-004-A: 2004   | REL0 |

|                             |              |           |
|-----------------------------|--------------|-----------|
| <b>PROPERTIES</b>           |              |           |
| Flux code                   | 2220         |           |
| Alloy code                  | SN96C        |           |
| Alloy composition           | SnAg3.8Cu0.7 |           |
| Liquidus                    | [°C]         | 217       |
| Solidus                     | [°C]         | 217       |
| Recommended soldering temp. | [°C]         | 320 - 370 |
| Acid number                 | [mg KOH/g]   | 201       |
| Flux content                | [% w/w]      | 2.2       |
| Residues                    | Colorless    |           |

|                                             |                     |                    |         |
|---------------------------------------------|---------------------|--------------------|---------|
| <b>TEST REPORTS</b>                         |                     |                    |         |
| Certificate of Compliance                   |                     |                    | Website |
| Declaration of Conformity 2011/65/EU (RoHS) |                     |                    | 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    |

|                              |          |                  |
|------------------------------|----------|------------------|
| <b>PACKAGING AND STORAGE</b> |          |                  |
| Reels                        |          |                  |
| Label                        | K63      | BZ               |
| Weight [kg]                  | 0.4      | 0.25 / 0.5 / 1.0 |
| Height [mm]                  | 63       | 80               |
| External diameter [mm]       | 63       | 76               |
| Internal diameter [mm]       | 11       | 30               |
| Reels per carton             | 10       | 10               |
| Standard wire diameter [mm]  | ∅        | 0.3 - 3.5        |
| Minimum shelf-life in months | 20-25 °C | 60               |