

# Electronic

# BALVER ZINN<sup>®</sup>

## Technical Data Sheet

## BALVER ZINN SOLDER WIRE

## LF 2220 NC

Lead-free cored solder wire, No-Clean, halide-free RELO

### General Information

**BALVER ZINN SOLDER WIRE LF2220 NC** has been developed for lead-free rework and touch-up of lead-free circuitry. The well-balanced flux activation system leaves minimal non-corrosive residues. **BALVER ZINN SOLDER WIRE LF2220 NC** provides fast wetting of critical surfaces to form strong joints. With a higher specific heat requirement than tin-lead solder, 20% more energy is needed to heat the soldering tip to 370°C. **BALVER ZINN SOLDER WIRE LF2220 NC** is also No-Clean and halide-free. The standard flux content is 2.2% and flux residues may remain on the board without cleaning. **BALVER ZINN SOLDER WIRE LF2220 NC** is offered in diameters from 0.3mm to 3.5mm and is also available in lead-free alloys **SN100C**, **SN96C** and **SN97C**. Lead-containing wires or special alloys are available on request. **SN96C** and **SN97C** are in accordance to **J-STD-006B!**

\***BALVER ZINN SOLDER WIRE LF2220 NC** does not contain hazardous substances beyond the limits prescribed by EU Directive 2011/65/EU ("RoHS II")

Further information is available in the **BALVER ZINN information „5 golden rules for hand soldering.“** Technical information and Data Sheets can be found on our website ([www.BALVERZINN.com](http://www.BALVERZINN.com)). You can also obtain all information and documents directly from **BALVER ZINN**.

### BALVER ZINN Production Programme

The **BALVER ZINN** production programme also includes solder bar, solder pastes and flux. In addition to the **SN100C** product family, **BALVER ZINN** offers additional unpatented and patented solder alloys for wave soldering, reflow and rework.

### Product Properties

- Flux classified according to J-STD-004 as: **RELO**
- Solder classified according to EN 61190-1-3 as: **RELO**
- RoHS\* compliant with lead-free alloys
- Bright and shiny solder joints with SN100C
- Ensures good wetting and flow during the soldering process
- Clear, dry, non-sticky residues

### Physical and Chemical Properties of flux LF2220 NC

<b>Acid value:</b> J-STD-004; IPC-TM-650, Method 2.3.13; 06/04 A	201mg KOH/g ± 5%
<b>Copper mirror test:</b> J-STD-004; IPC-TM-650, Method 2.3.32; 06/04 D	L
<b>Silver chromate test:</b> J-STD-004; IPC-TM-650, Method 2.3.33; 06/04 D	passed
<b>Solid content, flux:</b> J-STD-004; IPC-TM-650, Method 2.3.34; 06/04 C	n. d.
<b>Bromide und Chloride Test:</b> J-STD-004; IPC-TM-650, Method 2.3.35; 06/04 C	n. d.
<b>Fluoride after spot test:</b> J-STD-004; IPC-TM-650, Method 2.3.35.1; 06/04 A	passed
<b>Insulation resistance:</b> J-STD-004; IPC-TM-650, Method 2.6.3.3; 06/04 B	> 1x10 E8 Ohm
<b>Corrosion test:</b> J-STD-004; IPC-TM-650, Method 2.6.15; 06/04 C	passed

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#### Reels

Weight	0.25 / 0.4 kg	0.5 / 1.0 kg	0.4 / 0.8 kg
Marking	63/37	BZ	K80
Height	63 mm	80 mm	80 mm
Outside diameter	63 mm	76 mm	80 mm
Inside diameter	11 mm	30 mm	16 mm
Reels./carton)	10	10	10

#### Physical Properties of lead-free Alloys

LF2220 NC is available with the following, lead-free alloys:

Alloy	Composition	Melting point (°C)
SN100C	SnCu0.7Ni	227
SN96C	SnAg3.8Cu0.7	217
SN97C	SnAg3.0Cu0.5	217 – 218

#### Delivery Sizes

Parameter	Standard
Wire diameter (mm)	0.3 / 0.5 / 0.8 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5
Flux content (weight-%)	2.2

\*Other diameters, flux contents and features available on request.

#### Storage Conditions / Durability

Dry at room temperature / minimum 2 years shelf life.

#### Safety Advice

Before use please refer to the appropriate Safety Data Sheet.

Although the information in this data sheet is considered accurate, the measured values do not represent assured properties or delivery specifications. Because of the wide range of potential materials and applications, and with respect to possible protective rights and third parties, Balver Zinn Josef Jost GmbH & Co. KG **cannot** accept any liability.

#### **OUR GLOBAL DISTRIBUTION NETWORK**

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