

# Technical Data Sheet

## BALVER ZINN SOLDER WIRE

### Brilliant B2012

Lead-free flux cored solder wire, No-Clean, halide-free, ROLO

#### General Information

**BALVER ZINN** presents a new member of the **BRILLIANT** range of flux cored solder wires! **BALVER ZINN BRILLIANT B2012** is a halide-free rosin based formulation ideal for repair and touch-up applications. It gives fast and sustained wetting with low smoke and odor. Clear flux residue confers a shiny joint appearance. Flux residue is non-corrosive and may remain on the board without cleaning. Correct use prolongs soldering bit lifetime.

**BALVER ZINN BRILLIANT B2012** is a No-Clean flux cored solder wire with a standard flux content of 2,2%.

**BALVER ZINN BRILLIANT B2012** is available with wire diameters between 0,3 mm and 3,5 mm in alloys such as **SN100C®** and **SN97C**.

**BALVER ZINN BRILLIANT B2012** does not contain material that conflicts with EU Directive 2011/65/EU ("RoHS II").

Further information is available in the **BALVER ZINN** document "**5 Golden Rules for Hand Soldering**". Technical information, and other Technical Data Sheets, are available on our website, [www.BALVERZINN.com](http://www.BALVERZINN.com). All documentation is available directly from Balver Zinn.

#### BALVER ZINN Product Range

The **BALVER ZINN** range of products for electronics manufacture also includes solder bar, solder paste and flux. In addition to the **SN100C®** family, **Balver Zinn** offers other patented and un-patented solder alloys for wave soldering, reflow and rework.

#### Product Properties

- Flux classification to J-STD-004: **ROLO**
- Solder wire classification to EN 61190-1-3: **ROLO**
- RoHS compliant
- Bright and shiny joints with SN100C®
- Ensures good wetting and flow during the soldering process
- Clear, dry, non-sticky residue
- Low spattering flux

#### Physical and Chemical Properties of BRILLIANT B2012 Flux

<b>Acid value:</b> J-STD-004; IPC-TM-650, Method 2.3.13; 06/04 A	220mg 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 paper test (qualitative):</b> J-STD-004; IPC-TM-650, Method 2.3.33; 06/04 D	Pass
<b>Flux solids content:</b> J-STD-004; IPC-TM-650, Method 2.3.34; 06/04 C	Not applicable
<b>Bromide und chloride (quantitative):</b> J-STD-004; IPC-TM-650, Method 2.3.35; 06/04 C	Not applicable
<b>Fluoride spot test:</b> J-STD-004; IPC-TM-650, Method 2.3.35.1; 06/04 A	Pass
<b>10 day copper corrosion test:</b> J-STD-004; IPC-TM-650, Method 2.6.15; 06/04 C	Pass

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### Reels

Weight	0,25 / 0,4 kg	0,5 / 1,0 kg	0,4 / 0,8 kg
Label	63/37	BZ	K80
Height	63 mm	80 mm	80 mm
External diameter	63 mm	76 mm	80 mm
Internal diameter	11 mm	30 mm	16 mm
Reels per carton	10	10	10

### Physical Properties of Lead Free Alloys

#### BRILLIANT B2012

Is available in the following lead free alloys

Alloy	Composition	MP/°C
SN100C®	SnCu0,7NiGe 50ppm	227
SN97C	SnAg3,0Cu0,5	217 – 218

### Formats

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 / %	2,2

Other diameters, flux contents and features are available on request

### Storage conditions/shelf life

Dry at room temperature/minimum 2 years

### Safety advice

Before use please refer to the appropriate SDS

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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