

# Electronic

## Technical Data Sheet

### BALVER ZINN SOLDER WIRE

#### Cobarcore 1110

Lead-free cored solder wire

**BALVER ZINN**<sup>®</sup>

### General Information

**BALVER ZINN SOLDER WIRE COBARCORE 1110** has been developed for lead-free rework and touch-up of lead-free circuitry, when halide-containing activators are allowed. The carefully formulated flux system has a high activity to solder various substrates including copper, tin/lead, brass and nickel. The standard flux content is 2.2%. **BALVER ZINN SOLDER WIRE COBARCORE 1110** is, despite its content of halides, a “no-clean” formulation and can be used for difficult soldering applications without cleaning. **BALVER ZINN SOLDER WIRE COBARCORE 1110** is available in diameters from 0.5 mm to 2.5 mm. **BALVER ZINN SOLDER WIRE COBARCORE 1110** is available in lead-free alloys SN96C and SN99Cu1. Lead-containing wires or special alloys are available on request.

\***BALVER ZINN SOLDER WIRE Cobarcore 1110** does not contain hazardous substances beyond the limits prescribed by EU Directive 2002/95/EG (“RoHS”)

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 program also includes solder bar, solder paste and flux. In addition to the **SN100C** product family, **BALVER ZINN** offers other unpatented and patented alloys for wave soldering reflow and rework.

### Product Properties

- Flux classification according to J-STD-004 as: **ROM1**
- Solder classified according to EN 61190-1-3 as: **ROM1**
- RoHS\* compliant
- Ensures good wetting and flow even on difficult surfaces
- Low fume and spattering
- High activity

### Physical and Chemical Properties of flux Cobarcore 1110

<b>Acid value:</b> J-STD-004; IPC-TM-650, Method 2.3.13; 06/04 A	146.6 mg KOH/g ± 5%
<b>Copper mirror test:</b> J-STD-004; IPC-TM-650, Method 2.3.32; 06/04 D	M
<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	1.1 % ± 0.2
<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	n. d.
<b>Corrosion test:</b> J-STD-004; IPC-TM-650, Method 2.6.15; 06/04 C	n.d.

# Electronic

## Technical Data Sheet

### BALVER ZINN SOLDER WIRE

#### Cobarcore 1110

Lead-free cored solder wire

**BALVER ZINN®**

### Reels

Weight	0.5 kg	1.0 kg
Marking	~	~
Height	63 mm	80 mm
Outside diameter	63 mm	80 mm
Inside diameter	34 mm	47 mm
Reels./carton)	20	16

### Physical Properties of lead-free Alloys

Cobarcore 1110 is available with the following, lead-free alloys:

Alloy	Composition	Melting point (°C)
SN96C	SnAg3.8Cu0.7	217
Sn99Cu1	SnCu0.7	227

### Delivery Sizes

Parameter	Standard
Wire diameter (mm)	0.5 / 0.7 / 1.2 / 1.5 / 2.0 / 2.5
Flux content (weight-%)	2.2

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

### Storage Conditions / Durability

Dry at room temperature / minimum 12 month shelf life.

### Safety Advice

Before using please refer to the appropriate Material Safety Data Sheet.

The information in this Data Sheet is based on data considered accurate. The measured values stated are based on own measurements, but do not represent assured properties or delivery specifications. Because of the vast number of different materials and applications – also with respect to possible protective rights of third parties – Balver Zinn Josef Jost GmbH & Co. KG **cannot** accept any liability.



### OUR GLOBAL PARTNERS FOR LEAD-FREE SOLDERS

Nihon Superior Co., Ltd  
 Phone:+81(0) 6-63 80 11 21  
 Fax: +81(0) 6-63 80 12 62  
 E-mail:[info@nihonsuperior.co.jp](mailto:info@nihonsuperior.co.jp)  
 Web page:[www.nihonsuperior.co.jp](http://www.nihonsuperior.co.jp)

DKL Metals Ltd., Avontoun Works  
 Phone:+44 (0)1506-847710  
 Fax: +44 (0)1506-848199  
 E-mail:[sales@dklmetals.co.uk](mailto:sales@dklmetals.co.uk)  
 Web page:[www.dklmetals.co.uk](http://www.dklmetals.co.uk)

Florida CirTech, Inc.  
 Phone:+1 (970) 346-8002  
 Fax: +1 (970) 346-8331  
 E-mail:[b.gilbert@fctassembly.com](mailto:b.gilbert@fctassembly.com)  
 Web page:[www.fctassembly.com](http://www.fctassembly.com)