

Electronic

Technical Data Sheet

BALVER ZINN SOLDER WIRE

LF3135 NC

BALVER ZINN[®]

Lead-free cored solder wire with activated rosin flux

General Information

BALVER ZINN SOLDER WIRE LF3135 NC is a new development for lead-free soldering applications, when activators containing halide are allowed. **BALVER ZINN SOLDER WIRE LF3135 NC** allows optimal soldering results with low flux contents. The standard flux content is 2.2 %. **BALVER ZINN SOLDER WIRE LF3135 NC** is a no-clean formulation, despite its content of halides and can be used for difficult soldering applications without cleaning. Typical applications for **LF3135 NC** include manual soldering, automatic soldering and rework. **LF3135 NC** is offered in diameters from 0.3 mm to 3.5 mm and is 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 LF3135 NC** 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). 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: **REM1**
- Solder classified according to EN 61190 -1-3 as: **REM1**
- 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 LF3135 NC

Acid value: J-STD-004; IPC-TM-650, Method 2.3.13; 06/04 A	195 mg KOH/g ± 5%
Copper mirror test: J-STD-004; IPC-TM-650, Method 2.3.32; 06/04 D	M
Silver chromate test: J-STD-004; IPC-TM-650, Method 2.3.33; 06/04 D	not passed
Solid content, flux: J-STD-004; IPC-TM-650, Method 2.3.34; 06/04 C	n. d.
Bromide und Chloride Test: J-STD-004; IPC-TM-650, Method 2.3.35; 06/04 C	1,00 % ± 0,2
Fluoride after spot test: J-STD-004; IPC-TM-650, Method 2.3.35.1; 06/04 A	passed
Insulation resistance: J-STD-004; IPC-TM-650, Method 2.6.3.3; 06/04 B	> 1x10 E8 Ohm
Corrosion test: J-STD-004; IPC-TM-650, Method 2.6.15; 06/04 C	passed

Electronic

Technical Data Sheet

BALVER ZINN SOLDER WIRE

LF3135 NC

BALVER ZINN®

Lead-free cored solder wire with activated rosin flux

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

LF3135 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 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
Web page: 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
Web page: www.dklmetals.co.uk

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