

Technical Data Shee! BALVER ZINN SOLDER SN100CL SnCu0,7Ni SN100CLe+ SnNi

Product Description

BALVER ZINN SOLDER SN100CL and Cle+ are a lead free* alloys specially developed for the LFHASL process. SN100CL is chemically identical with SN100C (L stands for levelling) this alloy was rated by the NASA consortia as the most reliable lead free alloy in wave soldering. BALVER ZINN SOLDER SN100CL is a nickel micro alloyed eutectic tin/copper alloy with small traces of germanium to reduce oxidation. BALVER ZINN has more than five years experience in producing fine grain solder with unchanging quality. BALVER ZINN SOLDER SN100CL excels all other lead free alloys in lowest copper dissolution and allow profitable mass production. A further outstanding property is the bright and shiny appearance of the pretined boards without visible difference to conventional tin/lead boards. Balver Zinn SOLDER SN100CL is well established since many years in the printed circuit industry. Existing vertical and horizontal hot air levelling machines can be used or adapted for the LF-process. Due to the product specific properties of BALVER ZINN SOLDER SN100CL very coplanar and outstanding solderable LFHASL boards are the result. The accurate amount of nickel – covered world wide by patents – cause less stainless steel dissolution than with other lead free alloys. More technical information are available in BALVER ZINN Technical Information: "LFHASL with BALVER ZINN"

BALVER ZINN SOLDER SN100CL and Cle+ contains to our knowledge no substances in concentrations, which are prohibited by the European legislation 2002/95/EG ("RoHS")

Properties of LFHASL boards

- Very good solderability also after one year storage
- LFHASL boards can be cleaned with alkaline solutions after misprinting solder paste
- SN100C surface dissolve slower in wave soldering than immersion tin
- Solder paste spread is better than other lead free surfaces
- SN100C HASL boards can be combined with SAC alloys (results from NASA consortia)
- SN100C HASL boards are suitable for the lead process (melting point of SN100C is lower than pure tin)

Field of Application and Conditions of Processing

Pretinning of printed circuit boards with the HASL process in vertical and horizontal machines.

- Process temperature: 265-280°C
- Dipping time 1,5 5 sec (related to thickness and thermal mass)
- First filling of the machine with BALVER ZINN SOLDER SN100CL+
- Refilling only with BALVER ZINN SOLDER SN100Cle+ (we recommend in some applications the use of SN100Cle)

If the copper content exceed the limit of approximately 1,2% a partially exchange of solder is recommended. n some machines it is praxis to remove copper with the so called "screen-spoon". More details in the BALVER ZIN'N Technical Information: "Process control in LFHASL solder bath" or contact our technical support