FELDER seit 1979 LÖTTECHNIK

Product Information

FELDER ISO-Tin® - Lead-free, Sn99.3Cu0.7

according to ISO 9453:2014,
Art.-No.: 12940 …

Application

Lead-free soldering in the field of electronics, high temperature application e. g. in automotive industry (good temperature change resistance at high temperatures) constant temperature up to 120°C.

Properties

Metallic composition		:	99.3% Sn, 0.7% Cu
Melting range/point		:	227°C
Electrical conductivity		:	7.5 m/Ωmm^2
Specific Resistivity		:	1.33 x 10^{-1} Ωmm^2/m
Thermal expansion coefficient		:	21.5 x 10^{-6} K^{-1}
Specific weight		:	7.3 g/cm^3
Creep strength	at 20°C	:	8.6 N/mm^2
	at 100°C	:	2.1 N/mm^2
Shearing strength	at 20°C	:	23 N/mm^2
	at 100°C	:	16 N/mm^2

Impurities/tolerances acc. to DIN EN ISO 9453:2014

Ag	Al	As	Bi	Cd	Cu	Fe	Pb*	Ni
0.1	0.001	0.03	0.1	0.002	0.7 ± 0.2	0.02	0.07	0.01

Sb	Sn	Zn
0.1	Balance	0.001

*** The maximum lead content in FELDER electronic solder is 0.05 % (standard requirement 0.07%).**

 Status: 03/20

FELDER GMBH
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Wetting balance graph

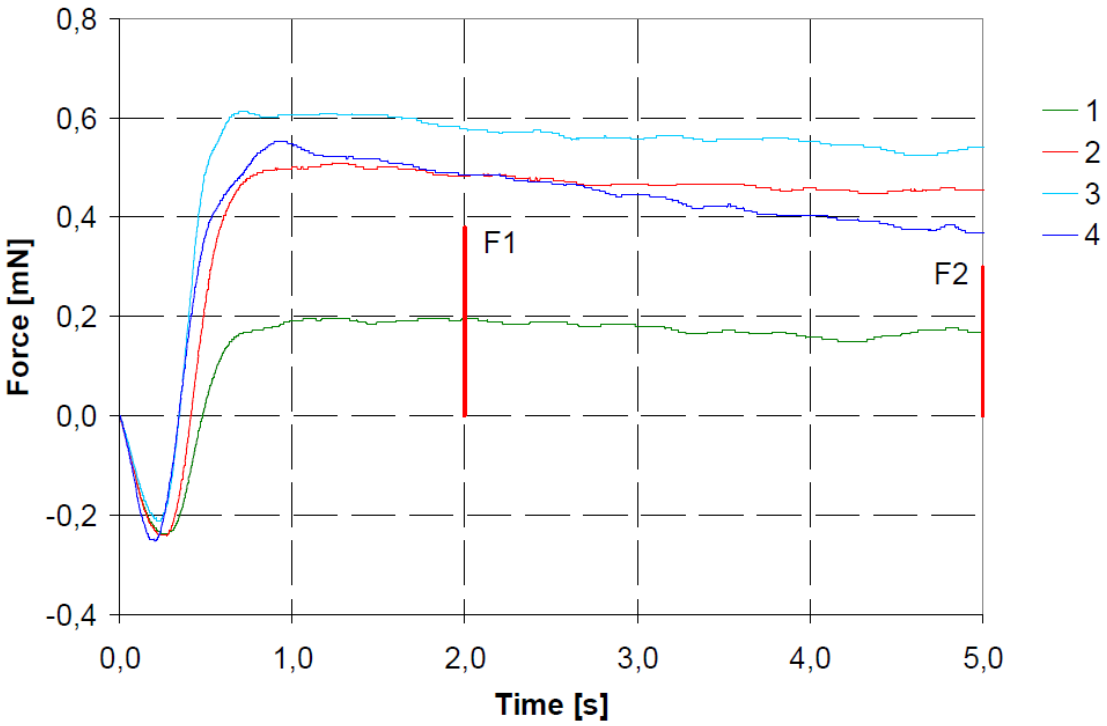
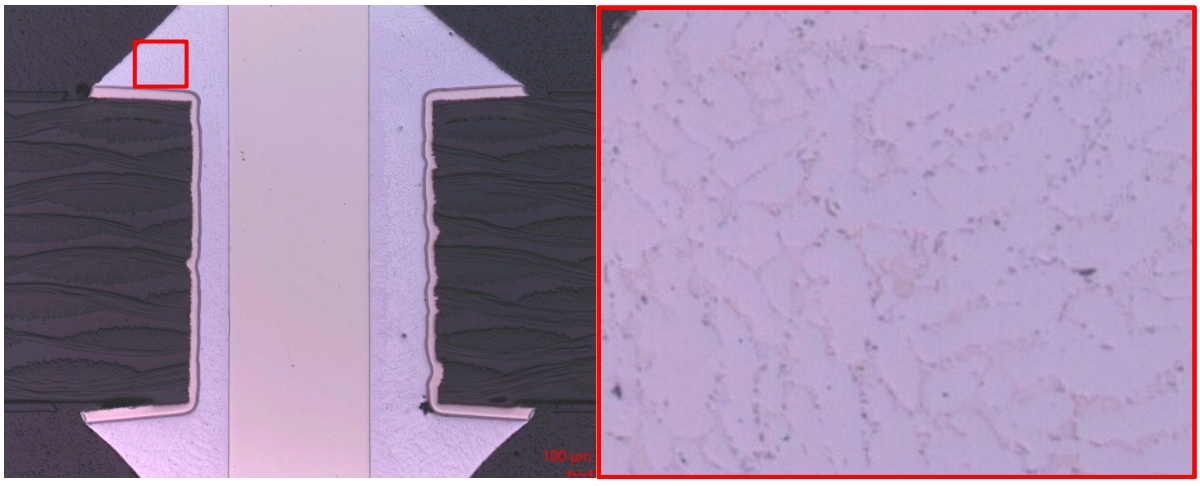


Bild 3-8: Benetzungsverlauf mit Sn99Cu1

Typical microstructure



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Delivery forms

250 g triangular rods, 400 mm long,
1.0 kg - rod 330x20x20 mm,
3.5 kg – block with hanging hole 545x47x20 mm.

Also deliverable as massive wire on spools for automatic feeding and as wire segments for first filling.

Advices

FELDER-ISO-Tin® Lead-free, Sn99.3Cu0.7 solder bars and wires do not contain any substances that are subject to restriction by directive 2011/65/EU (“RoHS”).

Every delivery is provided with a batch number. If requested an analysis certificate will be furnished. The analysis values are ascertained by the means of an optical emission spectrometer.

Other alloys are included in our standard delivery program.

If stored properly (dry and dust-free), it can be kept indefinitely.

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