

Product information

FELDER-ISO-Tin[®], Leadfree, Sn95.5Ag3.8Cu0.7

Leadfree soft solder for dip soldering units and wave soldering units
Sn95.5Ag3.8Cu0.7 according to DIN EN ISO 9453:2014
S-Sn95Ag4Cu1, according to DIN EN ISO 9453:2006

Item-no.: 1284 ...

All information about our products are the result of our long standing experience which we would like to pass on to our customers as application support. However, as we do not have any influence on the application of the works carried out with our products, please see the warranty claims in our conditions of sale because our liability is limited.

This product information does not constitute warranted properties.

Application

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

In addition to this copper containing alloy we recommend our copper free refill alloy Sn96,2Ag3,8 (Article-No.: 128900461). We renounced to prepare a separate technical data sheet because this alloy will be mixed with SAC387 with increased copper impurities.

Properties

Metallic composition	:	95,5% Sn, 3,8% Ag 0,7 % Cu
Melting range/point	:	217°C eutectic
Electrical conductivity	:	7,5 m/ Ω mm ²
Specific weight	:	7,5 g/cm ³
Creep strength	at 20°C	: 13,5 N/mm ²
	at 100°C	: 5,0 N/mm ²
Shearing strength	at 20°C	: 27 N/mm ²
	at 100°C	: 17 N/mm ²
Tensile strength	at 20°C	: 59 N/mm ²

Impurities/tolerances

	Ag	Al	As	Bi	Cd	Cu	Fe	Pb	Sb	Sn	Zn
DIN EN	3,8 ±0,2	0,001	0,03	0,1	0,002	0,7 ±0,2	0,02	0,07	0,1	rest	0,001
FELDER	3,8 ±0,2	0,001	0,003	0,02	0,001	0,7 ±0,2	0,005	0,04	0,04	rest	0,001

The maximum component level in FELDER electronic solder is under the standard requirement.

Delivery form

approx. 250 g triangular rods, 400 mm long,
approx. 1,0 kg - rod 330x20x20 mm,
approx. 3,5 kg – block with hanging hole 545x47x20 mm.

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

Advices

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.

FELDER lead-free soft solder alloys contains no materials, for which exists restrictions in the rules of 2011/65/EU ("RoHS II"), above 0,1 mass-% (0,01 mass-% for cadmium) obtained on the respectively homogeneous material.

Other alloys are included in our standard delivery program.