

Product Information

FELDER-ISO-Tin[®] - Lead free, Sn96.5Ag3Cu0.5

Lead free soft solder alloy for dip and wave soldering units
Sn96.5Ag3Cu0.5 according to EN ISO 9453:2014

Item-no.: 1276 ...

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 soldering in the field of electronics, high temperature application e.g. in automotive industry (good thermal cycling performance), constant temperature stability up to 150°C.

This solder shows same good soldering qualities as the lead-free standard alloy Sn95,5Ag3,8Cu0,7.

Properties

Metallic composition	:	96.5% Sn, 3.0% Ag, 0.5% Cu
Melting range/point	:	217- 220°C
Electrical conductivity	:	7.5 m/ Ωmm ²
Specific weight	:	7.5 g/cm ³
Steep 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

	Ag	Al	As	Bi	Cd	Cu	Fe	Pb	Sb	Sn	Zn
ISO 9453	3,0 ±0,2	0,001	0,03	0,1	0,002	0,5 ±0,2	0,02	0,07	0,1	rest	0,001
FELDER	3,0 ±0,2	0,001	0,003	0,02	0,001	0,5 ±0,2	0,005	0,04	0,04	rest	0,001

The maximum impurity level of FELDER electronic solder alloys are below the standard requirements.

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Delivery forms

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

FELDER-ISO-Tin[®] Lead-free, Sn96.5Ag3Cu0.5 solder bars and wires do not contain any substances that are subject to restriction by directive 2011/65/EU (“RoHS II”).

Every delivery is provided with a batch number. If requested an analysis certificate will be delivered. The elementary contents are ascertained with an optical emission spectrometer

Other alloys are included in our standard delivery program.

Storage

Stored dry and dust-free, the material (massive alloy) is durable for an unlimited period.