ISO-Tin® basic electronic solders

From pure metals of first melting.
For use in wave, selective and dip solder baths.

Format	Dimension
ca. 0,250 kg triangular rods	10 x 10 x 10 x 400 mm
ca. 1,000 kg rods	330 x 20 x 20 mm
ca. 3,500 kg blocks with suspension eyelet	545 x 47 x 20 mm

Also as solid wire on spools for automatic feeding
and available as cone / pellets for first filling.

Product	Alloy	EN ISO 9453:2014	Melting range	Rec. solder wave temperature
Sn96,5Ag3,0Cu0,5	Sn96,5Ag3,0Cu0,5	Sn96,5Ag3Cu0,5	217 - 219 °C	≥ 255 °C
Sn95,5Ag3,8Cu0,7	Sn95,5Ag3,8Cu0,7	Sn95,5Ag3,8Cu0,7	217 °C eutektic	≥ 255 °C
Sn96,5Ag3,5	Sn96,5Ag3,5	Sn96,5Ag3,5	221 °C eutektic	≥ 260 °C
Sn99,3Cu0,7	Sn99,3Cu0,7	Sn99,3Cu0,7	227 °C eutektic	≥ 270 °C
Sn63Pb37	Sn63Pb37E	Sn63Pb37E	183 °C eutektic	≥ 250 °C

For our **FELDER ISO-Tin® basic electronic solders** , we only use materials of the highest purity in our melt. Our special manufacturing process ensures minimal dross formation even during soldering processes in a normal atmosphere.

For use in selective soldering systems with wettable nozzles, we also offer a guaranteed phosphorus-free version.
(Phosphorus is suspected of accelerating the passivation of the solder nozzles).

Each delivery is provided with a batch number. A certificate of analysis is available on request. The analytical values are determined with an emission spectrometer. Our lead-free solders comply with the RoHS directive and thus also the ElektroG.
We will be pleased to provide you with a declaration of conformity.

All lead-free **FELDER ISO-Tin® basic electronic solders** basic electronic solders are of course also available as copper-free refillable solders.

Please note the application advantages of our NiGe-doped electronic solders.
Please ask for our detailed product information.

Desoxidation tablets

Phosphorus doped solder additive to reduce dross formation
Especially for wave and dip soldering systems without protective gas equipment
Phosphorus content 0.8 % P

Content	Format	Alloy (according to EN 9453:2014)
0,250 kg cans	pressed pellets	Sn60Pb40P (Sn60Pb40)
0,250 kg cans	pressed pellets	Sn99,9P (Sn99,9)

Nickel and germanium concentrates

For the adjustment and correction of the nickel and germanium contents in correspondingly doped solders as well as for the conversion from lead-free basic electronic solders to our NiGe solders.

Content	Format	Alloy
5,000 kg cartons	rods 10x150 mm	Sn99Ge1
5,000 kg cartons	rods 10x150 mm	Sn97Ni3

ISO-Tin®.
High temperature solders and high melting point solders

from pure metals of first melting
for immersion tin plating in transformer construction and in cable assembly

Format	Dimension
ca. 0,250 kg triangular rods	10 x 10 x 10 x 400 mm
ca. 1,000 kg rods	20 x 20 x 300 mm

Also available as solid wire on spools for automatic feeding.

Product	DIN EN ISO 9453:2014	Melting range	Soldering temperatures
Sn96Cu4Ni	-	227 - 335 °C	≤ 500 °C
Sn95Cu5		227 - 350 °C	≤ 500 °C
Sn97Cu3	Sn97Cu3	227 - 310 °C	≤ 450 °C
RoHS-compliant high lead content solders with > 85 % lead content			
Pb93Sn5Ag2	Pb93Sn5Ag2	296 - 301 °C	> 500 °C

Of course, we also manufacture alloys according to your specifications and factory standards.

For solder baths with continuous operating temperatures up to 570 °C!

Enamelled copper wires with high-temperature resistant enamel finishes are used in transformer construction. These enamels require melting temperatures of up to 570 °C. Our high-melting solders are specially adjusted to this demanding process and are high temperature stable. According to RoHS and ElektroG, high lead content solders with a lead content of more than 85 % may still be used without restriction in electronics production, because there is no applicable lead-free alternative to these solders. We will be happy to provide you with a declaration of conformity.

Pure tin cone for electroplating

Sn99,9

For the production of chemical Sn-surfaces in the production of printed circuit boards and for the galvanic tinning in the electronics industry and metalworking industry.

Format	Dimension
Cones	20 x 25 mm
Cones	23 x 35 mm
Cones	30 x 35 mm

In use, our cones are characterised by their excellent sliding properties. This prevents tilting in the titanium basket and achieves a high bulk density. Through a new production process in the manufacturing of our pellets, we have succeeded in achieving a longer operating life for the same application quantity.