

SOLDER TIN STARLI HQ

For High Performance Electronics

STARLI HQ solder is a high performance product for electronic applications. This solder tin is especially designed for maximum output from the customer's production line.

STARLI HQ solder is especially focused on outstanding chemical and soldering properties, reached by highest degree of purity and extremely low amount of dross. The material is continually controlled during the manufacturing process to ensure optimum quality. STARLI HQ conforms to 6-sigma requirements with regard to the chemical composition of the solder, a guarantee for the best wave soldering process.

All materials are approved by our laboratory in accordance with international standards and a certificate of analyses is issued for every single product. In addition to this, STARLI HQ range of products include phosphor treated, silver- or copper-alloyed materials.

Lead free STARLI HQ products are available in many formulations such as tin-silver-copper, tin-copper and tin-silver in order to meet the requirements of the customer.

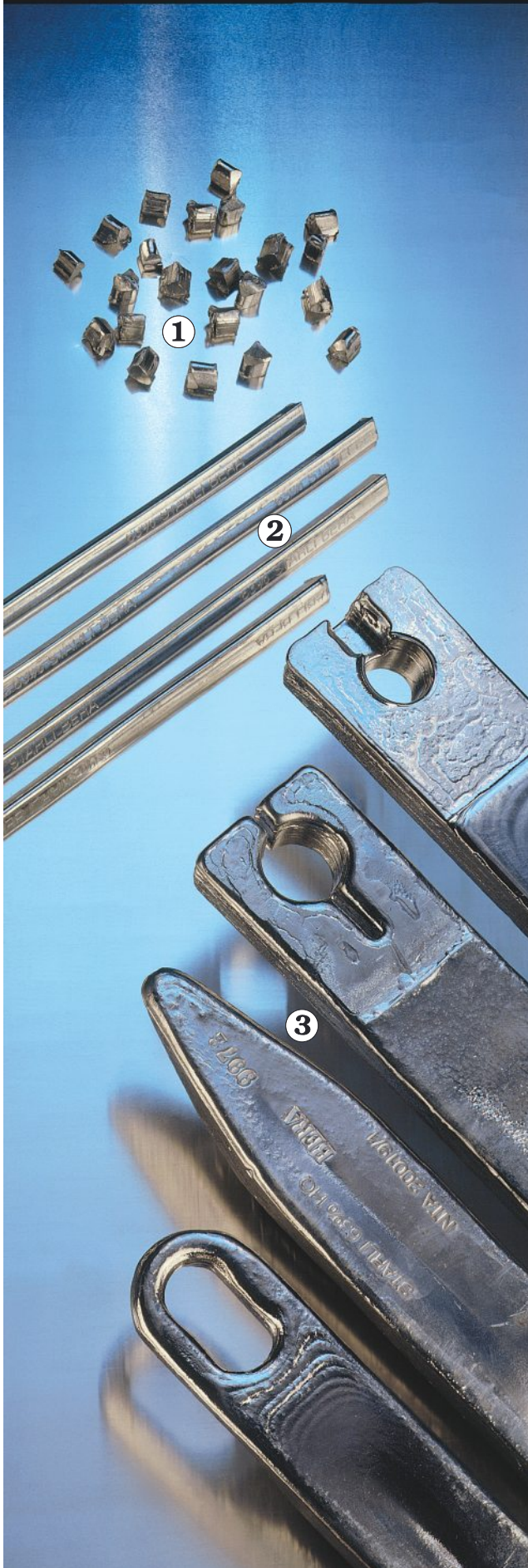
STARLI HQ is available in ingots, bars, sticks and wires in order to fit the types of wave soldering machines existing. If necessary we deliver special forms of solder tin for the start up of a wave soldering machine, i.e. solder in clippings, sticks or different special types of bars.

STARLI HQ and the KOKI range of products forms an outstanding package of consumables for the modern electronic business - Let us be your partner.

1). Cut offs

2). Sticks

3). Bars



100 YEARS IN THE SERVICE OF RECYCLING



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Comparison of STARLI HQ and the international standard EN 29453

Element	STARLI HQ	STARLI HQP	EN 29453 Sn63Pb37 Alloy No 1
Element (max)			
Sn	62,9 - 63,1	62,9 - 63,1	62,5 - 63,5
Pb	Rem.	Rem.	Rem.
Sb	0,05	0,05	0,12
Cd	0,001	0,001	0,002
Zn	0,001	0,001	0,001
Al	0,001	0,001	0,001
Bi	0,05	0,05	0,10
As	0,010	0,010	0,03
Fe	0,005	0,005	0,02
Cu	0,01	0,01	0,05
Ag	0,02	0,02	-
Fe	0,005	0,005	-
Au	0,001	0,001	-
Ni	0,005	0,005	-
S	0,0005	0,0005	-
P	0,0010	0,004	-
In	0,02	0,02	-
Na	0,001	0,001	-
K	0,001	0,001	-

Exampels of alternative lead free alloys

Alloy %	Melting point C°
99,5Sn 0,5Cu	227-228
97Sn 3Cu	ca 230-250
96,5Sn 3,5Ag	221
90Sn 9,5Bi 0,5Cu	ca 210-218
95,5Sn 3,8Ag 0,7Cu	217
91,8Sn 3,4Ag 4,8Bi	220



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