

FELDER-ISO-Tin[®] - Lead-free, „Sn98Ag+“

Lead-free solder for wave and selective soldering units

FELDER-ISO-Tin[®] - Lead-free „Sn98Ag+“ Sn98Ag1,2Cu0,7NiGe
according to Fuji-Pat.-No. DE19816671C2, US6179.935, JP3296289

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Application

Lead-free solderings in wave and selective soldering units. A usage in older wave soldering units is also possible, whose pots and nozzles are made of V2A and do not have protective gassing. The experience of our customers shows that most applications can be done without inert gas.

Properties

Beside the well-known advantages of Ni-endowed solders our alloy reaches by adding of germanium improved wetting qualities on all common surfaces in the electronic production and **lowest dross formation** in comparison to all other lead-free solders. A special advantage lies in the extremely low corrosion appearance with copper (in comparison to common SnAgCu-alloys up to 5 times lower). Furthermore, this Ag-addition leads in comparison to SnCuNi-alloys, additionally to a lowering of the working temperature and to an improved metal structure of the soldering joint.

Alloy	Sn98Ag+ (Sn98Ag1,2Cu0,7NiGe)
Melting temperature in °C	217 - 222 °C
Soldering temperature in °C	255 – 265°C
Density in g/cm ³	7,32
Tensile strength in N/mm ²	48
Extension in %	64
Hardness Hv	14,1
Thermal extension coefficient in 1/°C	23,3 x 10 ⁻⁶

PRODUCT INFORMATION

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Analysis / tolerances

Element Content (%)	Sn	Cu	Ag	Ni	Ge	Pb	
	98,0±0,5	0,7±0,2	1,2±0,2	0,06	0,01	max. 0,04	

Element Content (%)	Al	As	Bi	Cd	Fe	Sb	Zn
	max. 0,001	max. 0,03	max. 0,05	max. 0,002	max. 0,02	max. 0,05	max. 0,001

Delivery form

400 g pressed rods, 7 x 18 x 400 mm,
3,5 kg – blocks with hanging hole 545x47x20 mm.

Also deliverable as massive wire on spools and wire cuts for first filling.

Advice

Other alloys are included in our standard delivery programme.

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