

# Product Information

## **FELDER-ISO-Tin® - SN100-<sup>403</sup>Ce, SN100-<sup>403</sup>CeS, SN100-<sup>403</sup>CeS+**

Refill alloys for SN100-<sup>403</sup>C und SN100C™  
according to NIHON SUPERIOR – DE-Patent-No. 69918758 and European-Patent-No. 0985486,  
Sn99,9(NiGe) according to IEC 61190-1-3

Lead-Free FELDER-ISO-Tin® electronic solders do not contain any substances which are subject to restrictions according to directive 2011/65/EG („RoHS“).

Item-No.: 561299 ...

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

To compensate the entry of copper into the lead-free alloys SN100-<sup>403</sup>C and SN100C™ in wave- and selective soldering units, we recommend our copper free solders SN100-<sup>403</sup>Ce, SN100-<sup>403</sup>CeS and SN100-<sup>403</sup>CeS+. Hereto a regular control of the solder bath is unavoidable.

## Properties

As most of the PCBs and components have conducting paths and connections made of copper, copper is flushed into the solder bath by the soldering process. In fact, our SN100-<sup>403</sup>C has a lower dealloying quote of copper than other lead-free solders, nevertheless in most cases a copper level compensation is necessary.

Melting temperature in °C	232 (eutectic), reduces in the solder bath to 227° C!					
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## Analysis/Tolerances

Element / Content (%)	Sn	Cu	Ag	Ni	Ge	Pb	Au
<b>SN100-<sup>403</sup>Ce</b>					<b>0,005 – 0,007</b>		
<b>SN100-<sup>403</sup>CeS</b>	Rest	max. 0,05	max. 0,05	0,04 – 0,06	<b>0,009 – 0,011</b>	max. 0,05	max. 0,03
<b>SN100-<sup>403</sup>CeS +</b>					<b>0,024 – 0,026</b>		

Element / Content (%)	Al	As	Bi	Cd	Fe	Sb	Zn
<b>SN100-<sup>403</sup>Ce</b>	max. 0,001	max. 0,03	max. 0,03	max. 0,002	max. 0,02	max. 0,05	max. 0,001
<b>SN100-<sup>403</sup>CeS</b>							
<b>SN100-<sup>403</sup>CeS +</b>							

## Delivery Forms

1.00 kg - rods, 330 x 20 x 20 mm,

3.50 kg - blocks with hanging eye 545 x 47 x 20 mm.

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

## Storage and other Advices:

Stored at constant indoor climate durable for an unlimited period!

Other alloys are included in our standard delivery program.