



## Refill Solders

Lead-free alloys for electronics

### PRODUCT DESCRIPTION

Stannol refill solder alloys are copper-free versions of lead-free alloys. These are used to reduce increased copper content in solder baths. These versions can be used in wave or selective soldering systems as well as in immersion baths. FLOWTIN refill alloys ensure that the used micro alloying additions will remain in the required range and are not diluted. Thus the solder bath content completely remains the full FLOWTIN properties. Refill solders with silver content can be used to reduce copper and at the same time keep the silver content stable.

### PRODUCT FEATURES

#### Different compositions – suitable for the original alloy

- **Refill alloys are miscible in any ratio with the corresponding original alloy**
- **For correcting the composition of solder baths**
- **To reduce the content of process-related impurities, especially copper**

### APPLICATION

If copper or other alloying elements are no longer within the recommended or specified range of application, an increased number of solder defects may occur. These values can be determined by regular solder bath analysis. The Stannol analysis service carries out solder bath analyses and helps with recommendations to correct the composition.

REFILL ALLOY		ORIGINAL ALLOY	
Name	Composition	Name	Composition
<b>Flowtin TS 380*</b>	Sn96,2Ag3,8	<b>Flowtin TSC 385*</b>	Sn95,7Ag3,8Cu0,5
<b>Flowtin TS 300*</b>	Sn97,0Ag3,0	<b>Flowtin TSC 305*</b>	Sn96,5Ag3,0Cu0,5
<b>Flowtin TS 260*</b>	Sn97,4Ag2,6	<b>Flowtin TSC 263*</b>	Sn97,1Ag2,6Cu0,3
<b>Flowtin TS 03*</b>	Sn99,7Ag0,3	<b>Flowtin TSC 0307*.</b>	Sn99Cu0,7Ag0,3
<b>Flowtin TS 08*</b>	Sn99,2Ag0,8	<b>Flowtin TSC 0807*</b>	Sn98,5Ag0,8Cu0,7
<b>Flowtin T*</b>	Sn99,9	<b>Flowtin TC*</b>	Sn99,3Cu0,7
<b>Ecoloy TS 03</b>	Sn99,7Ag0,3	<b>Ecoloy TSC 0307</b>	S-Sn99Cu0,7Ag0,3
<b>Ecoloy TS380</b>	Sn96,2Ag3,8	<b>Ecoloy TSC</b>	Sn95,5Ag3,8Cu0,7
<b>SN100Ce*.</b>	Sn99,9	<b>SN100C*.</b>	Sn99,3Cu0,7
<b>SN100CLe*</b>	Sn99,9	<b>SN100CL*</b>	Sn99,3Cu0,7
<b>SN100CeS*</b>	Sn99,9	<b>SN100CS*</b>	Sn99,3Cu0,7
<b>SN100CeS+*</b>	Sn99,9	<b>SN100CS+*</b>	Sn99,3Cu0,7
<b>SN100CVe*</b>	Sn98,5Bi1,5	<b>SN100CV*</b>	Sn97,8Bi1,5Cu0,7
<b>SN100C04-S*</b>	Sn99,9	<b>SN100C07-S*</b>	Sn99,3Cu0,7

\* According to DIN EN ISO 9453 or internal specifications, additionally doped with micro alloy additives <0.1%.

## **RECOMMENDED APPLICATIONS**

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Wherever the composition of solders needs to be corrected. Mainly for reduction of copper contents to maintain proper soldering results at lowest possible solder temperatures.

## **DELIVERY FORM**

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- solid solder wire
- triangular bars
- Kg-bars
- ingots with hanging hole

## **HEALTH AND SAFETY**

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Read the material safety data sheet carefully before use and observe the safety precautions described.

## **DISCLAIMER**

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The above values are typical and represent no form of specification. The Data Sheet serves for information purposes. Any verbal or written advise is not binding for the company, whether such information originates from the company offices or from a sales representative. This is also in respect of any protection rights of third parties, and does not release the customer from the responsibility of verifying the products of the company for suitability of use for the intended process or purpose. Should any liability on the part of the company arise, the company will only indemnify for loss or damage to the same extent as for defects in quality.