STANNOL®

Wenn's ums Löten geht
When it's about soldering
Quand il s'agit du soudage

Technical Data Sheet

STANNOL® solid solder wire - Bi58Sn42 and Bi57Sn42Ag1

lead-free alloys with low melting point

- **Precision diameter wire free from surface irregularities**
- **Low Melting Point about 139°C**
- **For Temperature Sensitive Components**
- **Excellent Wetting**
- **Fast flowing Solder**
- **Lead-free – RoHS Compliant**

Description

STANNOL® precision-made solid solder wires are drawn through wire drawing machines to the precise diameter free from surface irregularities. This is particularly important when the solder is to be applied through an automatic feed mechanism. Our solid solder wire is manufactured on the same machines we use for our well known flux-cored solder wire with the entire attendant quality control.

STANNOL® solid solder wire Bi58Sn42 and **Bi57Sn42Ag1** are produced according to or in analogy to EN ISO 9453 (alloy no. 301).

Application

STANNOL® solid solder wire Bi58Sn42 and **Bi57Sn42Ag1** a melting range of only 137-139°C and can be used for the rework and general hand soldering.

STANNOL® solid solder wire Bi58Sn42 and **Bi57Sn42Ag1**
may not be used together with lead containing solders.

Physical Properties of Bi58Sn42 and Bi57Sn42Ag1 alloys

Properties	S-Bi58Sn42*	Bi57Sn42Ag1**
Melting Point	139 °C	137-139 °C
Density	8,7 g/cm^3	8.7 g/cm^3
TCE	13.8*10^{-6} K^{-1}	about 14*10^{-6} K^{-1}
Electrical Conductivity	4.5% IACS	about 4.6 % IACS

* complying with EN ISO 9453:2006
** analogous to EN ISO 9453:2006

Supply forms

Available diameters:	0.5mm, 0.7mm and 1.0mm
Available reel sizes:	100g and 250g per reel
MOQ:	The alloy S-Bi58Sn42 is subject to a MOQ of approx. 10kg

Health and Safety

Before using please read the material safety data sheet carefully and observe the safety precautions described.

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.

STANNOL GmbH
Oskarstraße 3-7 • 42283 Wuppertal • Tel. +49 (0)202-585-0 • Telefax +49 (0)202-585111 • E-Mail info@stannol.de • Web www.stannol.de