



STANNOL®

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

## Technical Data Sheet

# STANNOL® Solder - Bi58Sn42 and Bi57Sn42Ag1

**lead-free** alloys with low melting point

- Low Melting Point 139°C
- Excellent Wetting
- Fast flowing Solder
- For Temperature Sensitive Components
- Lead-free – RoHS Compliant

### Description

STANNOL® ECOLOY® Bi58Sn42 and Bi57Sn42Ag1 are produced according to or in analogy to EN ISO 9453 (Alloy No. 301).

### Application

STANNOL® ECOLOY® Bi58Sn42 and Bi57Sn42Ag1 are for use in wave-, selective- or dip solder machines. This solid solder is compatible with a large variety of fluxes which are commonly used in electric and electronics industry.

**STANNOL® ECOLOY® 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 <sup>3</sup>	8.7 g/cm <sup>3</sup>
TCE	13.8*10 <sup>-6</sup> K <sup>-1</sup>	about 14*10 <sup>-6</sup> K <sup>-1</sup>
Electrical Conductivity	4.5% IACS	about 4.6 % IACS

\* complying with EN ISO 9453:2006

\*\* analogous to EN ISO 9453:2006

### Supply forms

Triangular bars  
Solid Solder Wire

### Health and Safety

Before use 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.