

# Product information

## **FELDER-ISO-Tin<sup>®</sup>, Leadfree, Sn96.5Ag3.5**

DIN EN ISO 9453:2014, Sn96.5Ag3.5 (S-Sn96Ag4), DIN EN 61190-1-1, short name A35

Item-no.: 1289/96 ...

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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

Lead free joints in the field of electronics, high-temperature applications, e. g. in the automotive industry (good temperature change resistance at high temperatures) durable temperature-resistant up to 120°C.

This solder has been used for many years in the automotive industry as high temperature resistant alloy.

## Properties

Metallic composition	:	96.5% Sn, 3.5% Ag
Melting range/point	:	221°C eutectic
Electrical conductivity	:	7,5 m/ Ωmm <sup>2</sup>
Specific weight	:	7,5 g/cm <sup>3</sup>
tensile strenght	at 20°C	: 50 N/mm <sup>2</sup>
Creep strength	at 20°C	: 13,7 N/mm <sup>2</sup>
	at 100°C	: 5,0 N/mm <sup>2</sup>
Shearing strength	at 20°C	: 27 N/mm <sup>2</sup>
	at 100°C	: 17 N/mm <sup>2</sup>
Brinell hardness	:	19,8

## Max. Impurities/tolerances acc. DIN EN 9453:2014 resp. DIN EN 61190-1-3

<b>Ag</b> 3,5 ± 0,2	<b>Al</b> ≤ 0,001	<b>As</b> ≤ 0,03	<b>Au</b> ≤ 0,05	<b>Bi</b> ≤ 0,1	<b>Cd</b> ≤ 0,002	<b>Cu</b> ≤ 0,05	<b>Fe</b> ≤ 0,02
<b>Pb</b> ≤ 0,05*	<b>In</b> ≤ 0,1	<b>Ni</b> ≤ 0,01	<b>Sb</b> ≤ 0,2	<b>Sn</b> Rest	<b>Zn</b> ≤ 0,001		

\*The maximum lead content in FELDER electronic solders is 0.05% (standard requirement 0.07%).

## Delivery form

approx. 250 g triangular rods, 400 mm long,  
approx. 1,0 kg - rod 330x20x20 mm,  
approx. 3,5 kg – block with hanging hole 545x47x20 mm.

Also available as massive wire on spools for automatic feeding and as wire segments for first filling.

## Advices

Every delivery is provided with a batch number. If requested an analysis certificate will be furnished. The analysis values are ascertained by the means of an optical emission spectrometer.

Other alloys are included in our standard delivery program.