

# Product Information

## **FELDER-Special Soft Solder 118 °C**

**In-Sn special alloy  
(not standardised)**

**Item no. 1351 ....**

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All information about our products is 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

Indium solders are used in the semiconductor industry. Further fields of application are the soldering of glass, quartz and ceramic parts. Indium solders are also used in the vacuum and cryogenic engineering sector. Soft solders containing indium dissolve silver and gold slower than the common tin solders and therefore they are recommended for the soldering of precious metal coated surfaces.

**FELDER-Special soft solder 118 °C** has excellent flowing properties on copper, brass and steel, using the appropriate fluxes. The fluxes require a working temperature <130 °C.

## Properties

This special soft solder is an eutectic 2-element-alloy made of indium and tin.

Due to the very low melting point it begins to creep even at room temperatures, therefore it may only be stressed a little. **FELDER-Special soft solder 118 °C** shows a high corrosion resistance in alkaline media.

Alloy components:	tin, indium
Melting temperature:	118 °C (eutectic)
Density:	7.3 g/cm <sup>3</sup>
Tensile strength:	7.9 N/mm <sup>2</sup>
Hardness (HB):	4
Electrical conductance:	5.3*10 <sup>6</sup> Sm/m <sup>2</sup>

## Delivery Form

Triangular rods and wire (massive).

Other rod dimensions and blocks are deliverable on request.

## Advice

Other alloys are included in our standard delivery program.  
Please ask for more information.