

## DATENBLATT

# Chemical tin

Zinn (Sn)

Kupfer (Cu) **FR4 Material**



ES&S Solutions GmbH  
Gewerbering 2  
41751 Viersen, Germany

Telefon: +49 (0)2162-266-18-0  
Fax: +49 (0)2162-266-18-88  
E-Mail: [info@esskabel.de](mailto:info@esskabel.de)

[www.esskabel.de](http://www.esskabel.de)

**Disclaimer:** In the absence of confirmation by device specification sheets, ES&S Solutions GmbH takes no responsibility for any defects that occur in equipment using any of ES&S's devices, shown in catalogs, data books, etc. Contact ES&S in order to obtain the latest device specification sheets before using any ES&S's device. ES&S reserves the right to make changes in the specifications, characteristics, data, materials, structures and other contents described herein at any time without notice in order to improve design or reliability. Contact ES&S in order to obtain the latest specification sheets before using any ES&S's device. Manufacturing locations are also subject to change without notice. Observe the following points when using any device in this publication. ES&S takes no responsibility for damage caused by improper use of the devices. ES&S's devices shall not be used for equipment that requires extremely high level of reliability, such as: -Military and space applications -Nuclear power control equipment -Medical equipment for life support

## BESCHREIBUNG

This surface is as planar as the surface of chemical gold but only specialized manufacturers are able to handle it. Its properties are similar to those of HAL. The shelf life of chemical tin depends on the temperature and on the packaging because of a faster oxidation process.

## PROS:

- pads are planar
- suitable for fine pitch applications
- suitable for SMD
- best surface for press fit connectors

## CONS:

- high priced version
- difficult manufacturing process (fingerprints on the surface corrupt the solderability)
- limited shelf life (approx. 6 months)
- multiple soldering is only possible to a limited extent (reflow soldering with nitrogen is recommended)

ES&S Solutions GmbH  
Gewerbering 2  
41751 Viersen, Germany

Telefon: +49 (0)2162-266-18-0  
Fax: +49 (0)2162-266-18-88  
E-Mail: [info@esskabel.de](mailto:info@esskabel.de)

[www.esskabel.de](http://www.esskabel.de)

Disclaimer: In the absence of confirmation by device specification sheets, ES&S Solutions GmbH takes no responsibility for any defects that occur in equipment using any of ES&S's devices, shown in catalogs, data books, etc. Contact ES&S in order to obtain the latest device specification sheets before using any ES&S's device. ES&S reserves the right to make changes in the specifications, characteristics, data, materials, structures and other contents described herein at any time without notice in order to improve design or reliability. Contact ES&S in order to obtain the latest specification sheets before using any ES&S's device. Manufacturing locations are also subject to change without notice. Observe the following points when using any device in this publication. ES&S takes no responsibility for damage caused by improper use of the devices. ES&S's devices shall not be used for equipment that requires extremely high level of reliability, such as: -Military and space applications -Nuclear power control equipment -Medical equipment for life support

BILDER



ES&S Solutions GmbH  
Gewerbering 2  
41751 Viersen, Germany

Telefon: +49 (0)2162-266-18-0  
Fax: +49 (0)2162-266-18-88  
E-Mail: info@esskabel.de

[www.esskabel.de](http://www.esskabel.de)

Disclaimer: In the absence of confirmation by device specification sheets, ES&S Solutions GmbH takes no responsibility for any defects that occur in equipment using any of ES&S's devices, shown in catalogs, data books, etc. Contact ES&S in order to obtain the latest device specification sheets before using any ES&S's device. ES&S reserves the right to make changes in the specifications, characteristics, data, materials, structures and other contents described herein at any time without notice in order to improve design or reliability. Contact ES&S in order to obtain the latest specification sheets before using any ES&S's device. Manufacturing locations are also subject to change without notice. Observe the following points when using any device in this publication. ES&S takes no responsibility for damage caused by improper use of the devices. ES&S's devices shall not be used for equipment that requires extremely high level of reliability, such as: -Military and space applications -Nuclear power control equipment -Medical equipment for life support