

Competencies



Rolling and cladding:
Wide, ultra-thin, single or double-sided,
different layer ratios and materials



Slitting:
Narrow, thin, precise



Surface treatments:
Electroplating, roll cladding, degreasing

Material combinations for cladding

Copper	ETP copper, HCP copper, OF copper
Silver-cladding	Silver (Ag 99.99%)
Al-cladding	Aluminium (Al 99.5%)
Invar	FeNi36
Tin-cladding	L-Sn60Pb40, L-Sn62Pb36Ag2, L-Sn96.5Ag3.5 (RoHS compliant), L-Sn96.5Ag3Cu0.5 (RoHS compliant), L-Sn97.5Cu2.25Ag0.25 (RoHS compliant), Sn96.8 (with antioxidants) Sn100 (RoHS compliant)

Different solder coatings upon request

Dimensions

thickness	0.01 - 0.500 mm
width	0.6 - 600 mm*

* Depending on thickness

Advantages of roll clad foils made by SCHLENK

Roll clad foils can reduce costs and weight. Physical properties such as corrosion resistance and conductivity or thermal expansion can be combined.

- Flux free solder coating
- Precise layers with tightest tolerances
- Single sided or asymmetrical coating possible
- Wide variety of composite combinations
- New products with enhanced properties tailored to specific needs
- Economical solutions
- Short lead time due to modular production principle



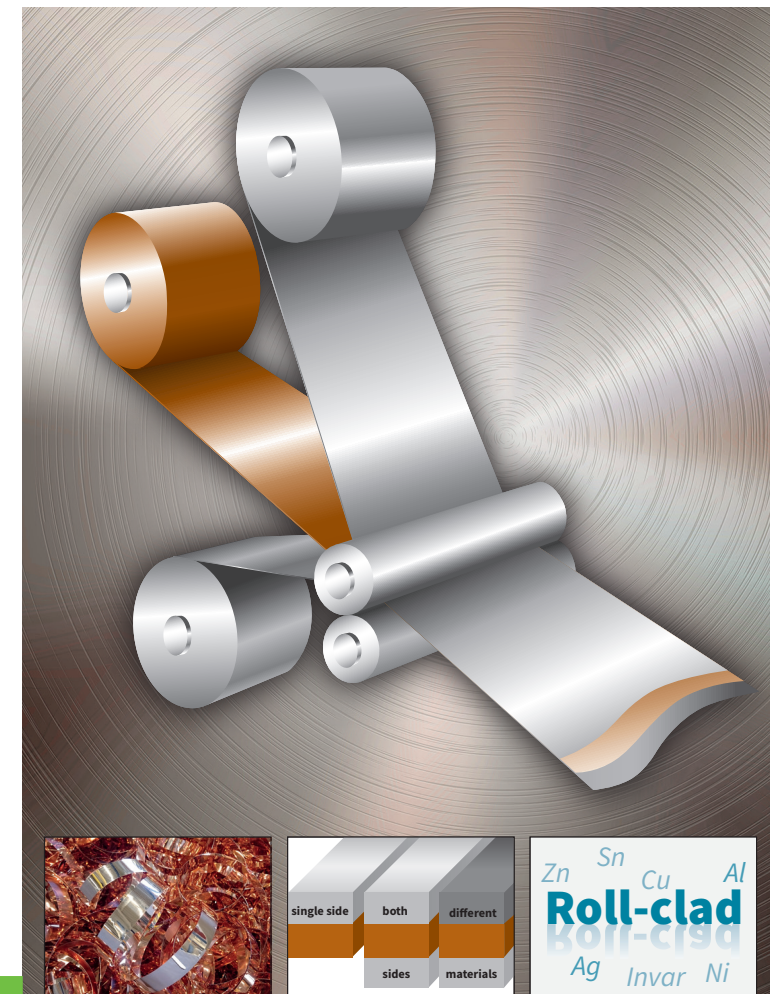
Schlenk Metallfolien GmbH & Co.KG
Barnsdorfer Hauptstraße 5
91154 Roth
Germany
Tel.: +49 (0)9171 808-281
E-Mail: foils@schlenk.de

www.schlenk.com

Data in this publication is based on careful investigations and is intended for information only. All information shall not be binding, shall carry no warranty as to certain ingredients, as to the fitting for a special purpose, as to the merchantability, or as to the industrial property rights of third parties. Any and all users are obliged to carry out tests on their own authority as well as to check the suitability and the danger of the respective product for a particular application. SCHLENK assumes no liability in this regard; neither to the exactness nor to the completeness of the data. We apply our General Sales Conditions to be found on www.schlenk.com.

Printed in Germany, CS 11/18

Roll-clad Foils for challenging requirements





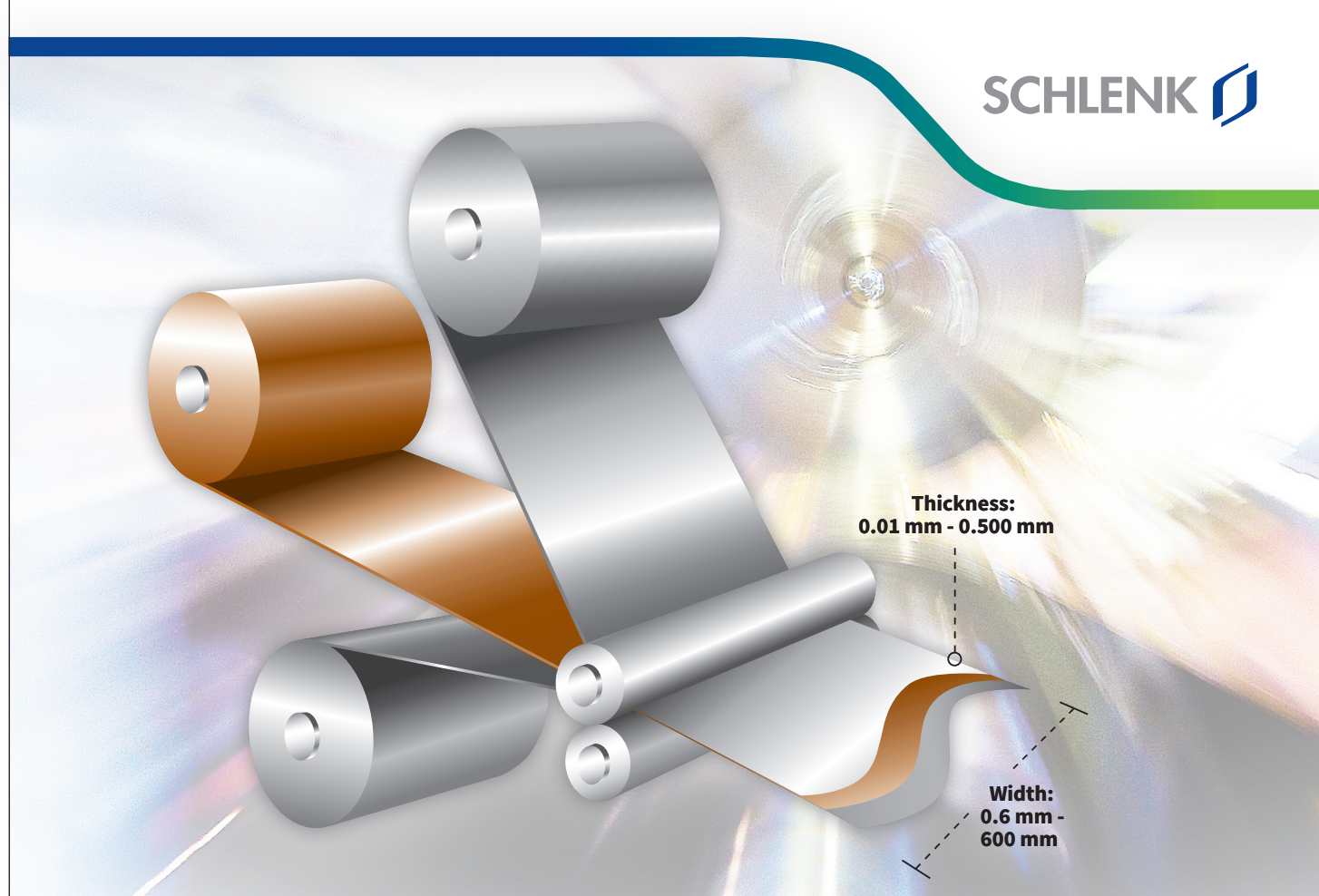
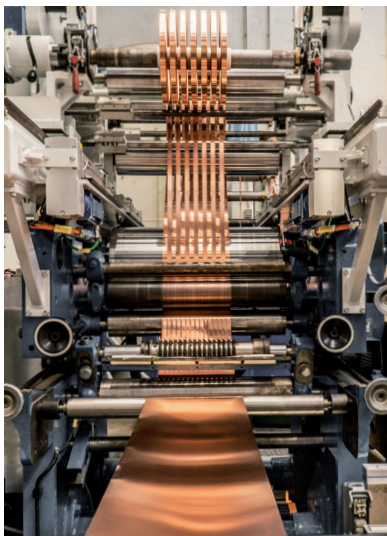
For many decades SCHLENK has specialized in the production of thinnest metal foils with a wide variety of possible surfaces and supply formats. Roll clad foils from SCHLENK show a significantly higher precision than hot dip tinned foils. The thin, individually and precisely processed metal foils from SCHLENK meet the requirements of many lines of industry for maximum resource – efficiency.

Application possibilities

Roll-cladding is a process in which two or more strips of metal are jointly passed through a rolling mill. The composite material consists of several different layers of metal which may be clad in various thicknesses. The individual layers are joined inseparably. As both metals are plastically deformed in the rolling process they are forced into forming a solid connection with each other.

Typical applications:

There are many different applications for roll clad foils in almost all important areas of industry:
Automotive, Solar industry, Medical industry, Energy supply and flat cable industry (FFC), Electronics and many others



Options*:

SINGLE SIDE	cladding	Silver	Solder	Steel	Copper	Copper
	base	Copper	Copper	Copper	Aluminium	FeNi36
BOTH SIDES	cladding	Silver	Solder	Copper	Copper	
	base	Copper	Copper	Nickel	FeNi36	
	cladding	Silver	Solder	Copper	Copper	
DIFFERENT MATERIALS	cladding	Silver	Solder A			
	base	Copper	Copper			
	cladding	Solder	Solder B			
DIFFERENT RATIOS	cladding	3% / 4% / 5,6% of total thickness				
	base					
	cladding	10% / 13% of total thickness				

Combination of properties

For example*:

- Silver (Ag) / Copper (Cu) vs. Ag
High conductivity, cladding with solid copper base with good electrical properties
- Aluminium (Al) / Copper (Cu) vs. Cu
Light weight benefits and good welding properties in combination with high conductivity

*Other variations and combinations possible – please inquire.