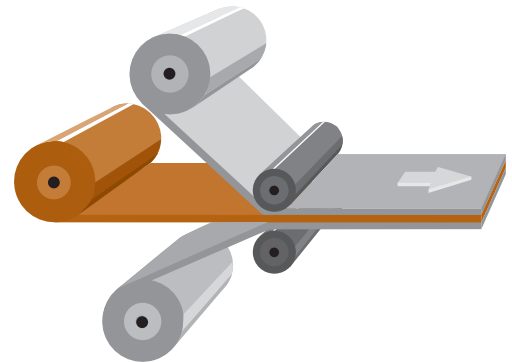


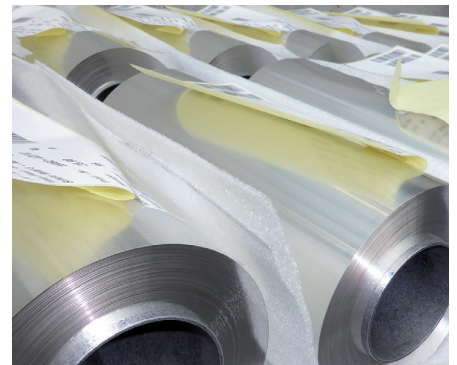
Roll Clad Foils for highest requirements

A roll-clad foil is a composite material that consists of several different layers of metal. The metal layers may be clad in various thicknesses. The individual layers of a roll-clad composite material are joined inseparably.



Advantages of roll clad foils

- **Single sided or asymmetrical coatings possible:** Production of different coating layers is possible e.g. one side coated with silver and the other side coated with tin.
- **Precise layers with tight tolerances:** Roll cladding technology ensures an even soldering layer across the entire width and length of the foil. With roll cladding technology we avoid the bone effect known by plating processes.
- **Excellent adhesion of clad layers:** Roll cladding creates inseparable composite between two materials – even under harsh testing conditions and bending radii.
- **Flux-free solder coatings and 100% Whisker free**
- **Width up to 560 mm:** Our production program ranges from 1 to 560 mm width.
- **Thickness as low as 10 µm possible:** Our production processes enable thicknesses from 10 to 400µm.
- **Perfect Bendability and Ductility:** Roll clad materials can be used for deep drawing, stamping or flexible applications. Material is designed for use in challenging applications and tightest tolerances.



Typical Layer Ratios (% of total thickness / different layer ratio available on request)

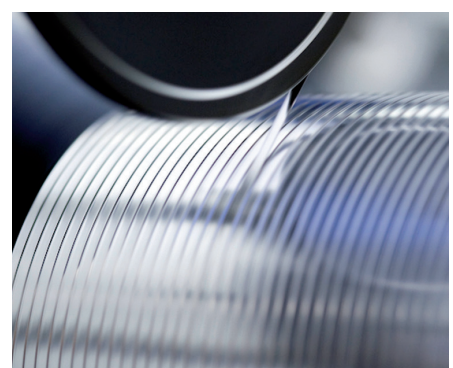
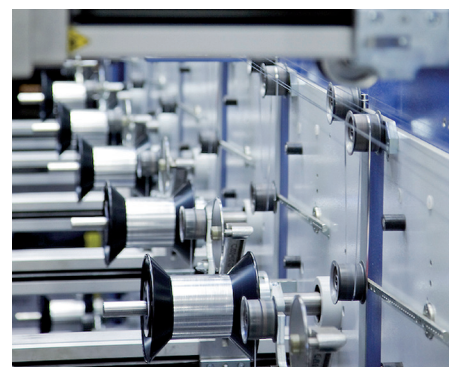
- For tin clad composites (**solder / copper core / solder**): _____ 4.0% / 92.0% / 4.0%
5.6% / 88.8% / 5.6%
10.0% / 80.0% / 10.0%
13.0% / 74.0% / 13.0%
- For Copper Invar® Copper composites (**copper / FeNi36 / copper**): _____ 12.5% / 75.0% / 12.5%
20.0% / 60.0% / 20.0%

Available solders and functional materials:

- Sn96.8 incl. anti oxidants
- Sn100 (RoHS compliant)
- Sn96.5Ag3.5 (RoHS compliant)
- Sn62Pb36Ag2
- Sn60Pb40
- Sn96.5Ag3Cu0.5 (RoHS compliant)
- Sn97,5Cu2,25Ag0,25
- Different solder coating upon request
- Ag

Typical applications for roll clad materials:

- Automotive
- Solar industry
- Medical industry
- Energy supply and flat cable industry
- Electronics



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