

Tin Plating

For good solderability, ductility and corrosion protection on contacts and components!

Special characteristics

- Anticorrosive on steel, copper and copper alloys
- Ensures good solderability of the product
- Copper retains its good electrical properties
- Ensures good ductility of the product

Tin plating at Galvano Hengelo

- Galvanic / electrolytic process
- In contrast to thermal tinning: obtaining a thin and even layer of tin
- Production method: rack or drum (please inquire about the possibilities)
- When tinning aluminium: a chemical nickel underlayer as standard
- When tinning brass: a barrier layer of electroplated nickel is optional

Areas of application

Tin plating is widely used in the electrical and electronics industry as a contact material. Within other market segments, tin plating is also used as corrosion protection.

Some examples

- Electronics: contacts and components
- Electrical engineering: current conductors and busbar systems
- Automotive: battery terminals

Properties of electrodeposited tin		
Symbol	Sn	
Content	>98	%
Density	7,29	g/cm ³
Melting point (appx.)	220	°C
Electrical conductivity	10,7	1/Ω
Electrical resistance	9,3	μΩ/cm
Hardness (semi-bright coating)	20-40	HV

Base materials for tin electroplating:

Copper (alloys) and steel

Maximum product dimensions:

Copper / Steel: LxBxH = 1300 x 300 x 900 mm
Copper: Also barrel plating

