

Silver Electroplating

The perfect solution for excellent electrical power transmission!

Characteristics

- Excellent electrical conductivity
- Suitable as a coating for contacts and conductors in switching systems

Silver-plating at Galvano Hengelo

- Electroplating of copper, aluminium or steel components
- Galvanisation of parts made of copper, aluminium or steel
- Both hard and normal silver-plating is possible
- In the case of aluminium, an underlayer of 3-5 microns of chemical nickel is applied
- Partial surface treatment is possible
- The best solution for your product with the application of hanging, barrel, turning or tilting racks
- Hightech production lines
- Passivation is optional
- Heat treatment for adhesion improvement and control is optional

Areas of application

Electroplating for the electrical and electronics industry. Galvano Hengelo has developed into a specialist in the application of silver on components for installations and devices for both high, medium and low voltage.

Some examples

- Conductors
- Switching contacts
- Electrodes high voltage
- High-voltage luminaires
- Telecom test equipment
- Rail systems
- Connectors

Properties of electrodeposited silver

Symbol	Ag	
Ag level	>99	%
Sb level (only for hard silver)	<0,55	%
Density	10,49	g/cm ³
Melting point	962	C
Electrical conductivity	62,5	1/ Ω
Electrical resistance	1,6	μΩ/cm
Hardness normal silver	90-110	HV
Hardness hard silver	>125	HV

Maximum product dimension

Copper: LxWxH= 2.100 x 400 x 1.100 mm, also barrel plating possible.
Aluminium: LxWxH= 1,300 x 300 x 900 mm

Silver plating on a dynamic rotating rack



Silver barrel plating by barrel plating



Silver plating of internal diameters with internal anode



Silver plating on a static rack

