

Nickel Solution

For electroplating nickel with the pad or in the bath.

Nickel plating is one of the most important processes in industry and research. Electroplated nickel plating enables durable and wear-resistant coating of metallic or conductive surfaces. Furthermore, nickel coatings are convincing in that they are resistant to corrosion and have good solderability. With the Betzmann electroplating nickel electrolyte you can produce electroplated nickel coatings yourself.

The advantages of electroplating with our nickel electrolyte in the overview:

- o Shiny nickel appearance
- o Ferromagnetic layer (in contrast to electroless nickel !!!)
- o Good solderability
- o Nickel plated objects are more wear resistant
- o Excellent deposition properties of the nickel electrolyte
- o Ideal barrier layer for subsequent electroplating (prevents diffusion and color mixing e.g. from copper to gold)

Caution: Nickel is allergenic, therefore avoid skin contact at all costs. Do not inhale aerosols or vapors under any circumstances.

Nickel forms a very hard layer. However, it is increasingly avoided because of its allergenic properties. In the jewelry sector, one can therefore use bronze to white bronze or palladium as a substitute when plating.

Application:

Plus cable with handle and electrode and fabric pad in the plus.

Minus cable with crocodile clip attached to the workpiece and connection in the minus pole

Nickel electrode, graphite electrode and cotton pad.

Voltage/ parameters:

For bath electroplating, 5-15V (approx. 6-8V recommended).

Pin electroplating: 8-15V (approx. 8-10V recommended). But still start with 5 volts first!

Current density: 1-5 A/dm² ; Working temperature: 15-60°.

No hazardous material, irritant

Wear protective gloves, goggles

Use at room temperature at least

Can be used liquid or thickened - Thickening with our gel former possible

Polish surface to gloss by hand or machine - polish copper well shortly before!

Degrease surface with electrocleaner

Then apply the nickel by means of anode pad with light circular movements on the surface until a rich nickel shine is formed. No drying phase or similar necessary.

Rinse with water and a soft cloth to remove **any stains**.