

## Nickel Bath NORMA

Nickel Bath NORMA is a sturdy electrolyte which is operated in most cases without additives, which is mainly used for plating of intermediate nickel layers in the field of electrical and electronic application. Its deposits are very ductile and extremely active which is especially important for subsequent electroplating. On blank surfaces Nickel Bath NORMA produces light and relatively uniform nickel coatings.

The information in this data sheet is based on laboratory as well as practical experience. Figures quoted for operating limits and replenishment quantities are for guidance. Actual values necessary will depend on the components being plated (material and geometry), their application and plating plant conditions.

## Nickel Sulphamate MS

Nickel electrolyte on sulfamate basis for the deposition of semi bright, ductile layers with low internal stress.

### APPLICATION

- Electronics
- Universally applicable

### PROCESS

- Reel-to-Reel-, rack- and barrel plating lines
- High deposition speeds possible
- Application for high as well as low current density ranges

### BENEFITS

- Versatile electrolyte
- Easy and stable electrolyte operation
- Operation without organic additives, optionally with brightener

## Semi-Bright Nickel SLOTONIK SB

Semi-bright Nickel SLOTONIK SB plating process produces uniform semibright deposits over a wide current density range. The electroplated finish is extremely ductile and is suitable as a barrier coating when tin or tin-lead plating of copper and copper alloys.

Semi-bright Nickel SLOTONIK SB is suitable for the nickel plating of PCBs, and other applications where a semi-bright deposit is required.

Semi-bright Nickel SLOTONIK SB is not suitable for use in duplex coatings where high corrosion resistance is required as the deposit contains sulphur.

## **Super-Bright Nickel SLOTONIK 20**

Super-Bright Nickel SLOTONIK 20 meets all the demands placed on a top quality nickel electrolyte. Fully bright, light nickel deposits, excellent throwing power and levelling even at thin nickel layers and highly ductile deposits, good properties for further chrome plating as well as a simple and trouble-free electrolyte operation are the features of this electrolyte.

Super-Bright Nickel SLOTONIK 20 is suitable for rack application with air, eductor or mechanical agitation.

The additive system is developed, to add the basic brightener and leveller separately. This enables individual adjustment of the degree of brightness and levelling within a wide range or individual demands and requirements, every time reproducible, according to the specific needs.

## **Bright Nickel SLOTONIK 30**

Bright Nickel SLOTONIK 30 meets all the demands placed on a modern top quality nickel electrolyte. Bright, light nickel coatings, excellent throwing power and a high degree of levelling even with thin nickel layers, high ductility as well as a simple and trouble-free electrolyte operation are the features of this electrolyte.

Bright Nickel SLOTONIK 30 is particularly suitable for bright nickel plating of barrel parts.