

# Zinc-Nickel

## SLOTOLLOY ZN 1700

Zinc-Nickel SLOTOLLOY ZN 1700 is a KOH-based, alkaline process for the deposition of zinc-nickel alloy coatings with 12 - 15 % by weight nickel in the alloy and is preferable used for barrel application. This potassium based electrolyte features innovative electrolyte composition combined with a special anode technique. Advantages of the process are a high deposition rate, a high conductivity and a reduced decomposition of the additives. Furthermore, the formation of hardly soluble stains and sludge in the tank is significantly reduced.

Zinc-Nickel SLOTOLLOY ZN 1700 is operated with the special anodes VX 2. It has a good metal distribution as well as a constant alloy composition over a wide current density range.

The differences between the KOH- and the NaOH variant are as follows:

- Carbonate cannot be removed by freezing the electrolyte.
- The content of carbonate is controlled by drag-out and if necessary, dilution of electrolyte ("feed and bleed").

Transparent and black conversion layers with high corrosion protection can be produced by using an individual passivation of our SLOTOPAS series. For a possible subsequent sealant the products of our SLOTOFIN series are available.

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 only. Actual values necessary will depend on the components being plated (material and geometry), their application and plating plant conditions.

### Important:

Please read this instruction carefully prior to the use of the process and carefully follow all the parameters that have a direct influence on the operation. We reserve the right to make technical changes. In the interest of safety, please pay attention to the hazard warnings on the labels of the containers. The minimum shelf life of the products is included on the labels and is also available in the appropriate Quality Assurance (QA03).

The current IMDS number of the layer deposited from the process is available on the internet at [www.schloetter.com/downloads](http://www.schloetter.com/downloads).

For the storage of chemical products the TRGS 510 must be followed.

**If the additives used in this process contain a SVHC-substance, then this will be specified in the corresponding Material Safety Data Sheet, section 15.**

