

Zinc-Nickel

SLOTOLLOY ZN 60

Zinc-Nickel Alloy SLOTOLLOY ZN 60 is an alkaline process for the deposition of zinc-nickel alloy coatings on barrel parts. The process operates in two steps:

Step I (pre-plating) deposits dull coatings containing 8 - 10 % by weight nickel.

Step II (final-plating) deposits semi-bright zinc-nickel layers containing 12 - 15 % by weight nickel.

Thickness ratio of coatings, **step I** to **step II** should be approx. 1 : 2.

The advantage of this two-step process is, that even steel types with poor starting behaviour (e.g. turning tool) can be plated very dependably. While **step I** fully covers the surface, **step II** guarantees an impressive appearance and the required high corrosion protection expected from zinc-nickel coatings.

The electrolyte shows a good metal distribution as well as a constant alloy composition over a wide current density range.

The zinc-nickel alloy layers deposited from the electrolyte can be yellow-, transparent- as well as black chromated and transparent-, blue-, iridescent or black passivated. For this purpose, we offer the products of our SLOTOPAS series. For a possible subsequent sealant we recommend our SLOTOFIN series.

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.

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.

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.

