

Zinc-Tin

SLOTOLLOY ZSN 20

Zinc-Tin SLOTOLLOY ZSN 20 is a weak acidic (pH 3.8 - 5.0), fluoride-free electrolyte for the deposition of matt to semi-bright coatings with a wide alloy range. The optimum operating temperature is 40 °C, the current efficiency is approx. 80 %.

The main range of application is the prevention of aluminium-iron contact corrosion. The optimum corrosion resistance of the deposited layers can be achieved at a tin content between 70 - 90 %.

The eutectic tin-zinc alloy (91 % tin, 9 % zinc) has its melting point at 197 °C. According to the phase diagram, the melting process also commences for non-eutectic compositions (e.g. 70 % tin, 30 % zinc) at the same temperature.

During heating, such non-eutectic alloys pass through a pasty state until at liquidus temperature a homogeneous melt has been reached. From a temperature ≥ 150 °C blistering may occur.

Zinc-Tin SLOTOLLOY ZSN 20 is used for bulk parts at barrel application.

The electrolyte contains AOX.

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.

