

# Electroless Nickel SLOTONIP CT 20

Electroless Nickel SLOTONIP CT 20 is an electroless process for the deposition of nickel-phosphorus / PTFE composite coatings onto metals and non-conductive material.

The coatings deposited from Electroless Nickel SLOTONIP CT 20 are light, semi-bright to bright. The deposits contain 10 - 13 % phosphorus (related to the pure NiP-layer) and between 20 - 30 vol% of PTFE can become integrated. The process is free from Pb, Cd and PFOS.

Electroless Nickel SLOTONIP CT 20 is especially applied if high demands on the tribological characteristics of the coatings are required.

A trouble-free and easy electrolyte operation in conjunction with a high stability is the feature of this electrolyte. The pH value is adjusted with ammonia. The deposition rate is approx. 6 - 9 µm/h.

The coatings deposited from Electroless Nickel SLOTONIP CT 20 may not be exposed to temperatures > 250 °C. This applies to possible performed heat treatments of the coatings after the deposition as well as for the continuous use of the coatings.

The electrolyte is made-up and replenished during operation with combined additives. This especially eases the handling during electrolyte operation.

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.

This particular process is protected under the following United States patents:  
5 863 616, 6 306 466, 7 744 685, 8 147 601

#### 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.**

