

Tin-Bismuth

SLOTOLLOY SNB 30

IMDS ID No. 10629453

Tin-Bismuth SLOTOLLOY SNB 30 is a highly acidic, fluoride-free electrolyte used to deposit dull, silky tin-bismuth coatings containing up to 10% bismuth.

The process was developed as a substitute for tin-lead alloy electrolytes. The primary application is therefore plating of electrotechnical and electronic components, where the solderability of the finish is important. The additives are nonfoaming, the electrolyte is therefore suitable to be used for high speed applications.

The general problem of immersion of bismuth on the plated surface by interruptions of the current is minimised by the special formulation of the additives.

The solderability of the components remains good even after similar ageing tests to those usually carried out on tin-lead deposits. The soldering tests were performed using a tin-silver eutectic soldering bath (96.5 % tin, 3.5 % silver).

Tin-bismuth coated components are a possible alternative for tin-lead coated components for the use with lead-free solders.

The additives required for bath make-up and operation meet the requirements of the RoHS Directive (Restriction of certain Hazardous Substances) relating to the limit of lead, mercury, cadmium, chrome(VI), Polybrominated Biphenyls and Polybrominated Diphenyl Ethers.

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 these instructions carefully and follow recommendations given.

We reserve the right to make technical changes as necessary.

In the interests of safety, please pay attention to the R- and S- phrases on the drum label.

The shelf life of the additives is generally 18 months.

The date of production is taken from the first 3 figures of the batch number.

Figure 1 = year; figures 2-3 = month; figures 4-7 = batch number; (UK labels use a 4 digit year code).

For the storage of chemical products only the TRGS 514 and TRGS 515 Regulations must be followed. The Hazardous Goods Regulation (ADR/GGVS) are only valid for transportation and must not be applied to storage.

