Tin-Copper
SLOTOLOY SNC 20

IMDS ID No.: 10628142

The Tin-Copper SLOTOLOY SNC 20 is a sulphate-free electrolyte giving a fine crystalline, matt deposit of a tin-copper alloy with a co-deposition of about 1 - 10 % copper. The tendency to form whiskers, which is seen as a probable disadvantage of pure tin coatings, is thus reduced. The field of application for this process is therefore the plating of all types of electronic components. The electrolyte can be used for rack, barrel and high-speed application by adjusting metal content and electrolyte temperature accordingly. The additives are non-foaming.
The co-deposition of organic additives in the coating is very low. There is no formation of breakdown products of the additives during the use of the bath. The electrolyte therefore gives a stable performance irrespective of production throughput. Because of the low co-deposition of organics the coatings show a good solderability, even after the standard ageing tests. The solderability should be tested with lead-free solders, which are intended to be used in future for assembling. A general statement on the solderability is therefore not possible, because this depends also on the type of solder-alloy and fluxes. The coatings are especially suitable, when lead-free solder-pastes of the composition tin/silver/copper are used.
Tin-Copper SLOTOLOY SNC 20 contains special additives, which prevent the immersion plating of copper on the tin anodes. The copper concentration in the electrolyte is therefore very stable. This is a requirement that the deposition of tin-copper coatings with a stable alloy composition is possible.

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.

Dr.-Ing. Max Schlötter
GmbH & Co. KG
Talgraben 30
D- 73312 Geislingen/Steige

Tel. +49(0)7331/205-0
Fax +49(0)7331/205-123
info@schloetter.de
www.schloetter. com