

Bright Copper

SLOTOCOUP CU 40

The Bright Copper SLOTOCOUP CU 40 meets all demands of an electroplated copper deposition for printed circuit boards (PCB). Depending on the operating temperature, the copper content and the concentration of additives, it is possible to achieve medium current densities of 1 to 4 A/dm². The electrolyte deposits bright copper coatings with low internal stress and optimal elongation at break for high thermal carrying capacity. It's important to note, that the metal distribution depends on the geometry of the PCBs and the electrolyte, the current density and the electrolyte composition.

Bright Copper SLOTOCOUP CU 40 is made-up and operated with two components, Starter SLOTOCOUP CU 41 and Replenisher SLOTOCOUP CU 45. Both additives may be mixed according to the specific needs. For the current dosing only Replenisher SLOTOCOUP CU 45 may be used.

Starter SLOTOCOUP CU 41 in conjunction with Replenisher SLOTOCOUP CU 45 is responsible for brightness, levelling and to a certain extent also for optimal metal distribution. Starter SLOTOCOUP CU 41 may be analytically determined by thin layer chromatography.

Replenisher SLOTOCOUP CU 45 is responsible for ductility and optical appearance of the copper deposit and is dosed due to material throughput and service life. Replenisher SLOTOCOUP CU 45 contains brightening agents as well as Starter SLOTOCOUP CU 41 proportionately.

There's no formation of troublesome decomposition products, so active carbon treatment is not required unless due to other reasons (like e.g. resist bleeding).

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 only. 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.

