



Products

Chemicals for Printed Circuit Boards

▼ Electroplating additives and processes for the manufacturing of printed circuit boards (PCB)

↳ Innerlayer Treatment:

- ↳ Black oxide based on chlorite
- ↳ Brown oxide based on hydrogen peroxide

↳ Smear Removal, 3-step process:

- ↳ Sweller (various systems for normal and high Tg-materials)
- ↳ Permanganate (sodium or potassium)
- ↳ Neutralizer (with or without glass fiber conditioning)

↳ Conventional PTH with electroless copper (horizontal/vertical)

- ↳ Based on tartrate or Quadrol as a complexing agent
- ↳ Deposition rates between 1.2 and 6.0 A²m/h

↳ Acid Copper (horizontal/vertical)

- ↳ Vertical DC, soluble anodes
- ↳ Vertical pulse, soluble anodes
- ↳ Horizontal DC, insoluble anodes
- ↳ Horizontal pulse, insoluble anodes

↳ Electrolytic Tin

- ↳ Based on methanesulfonic acid (MSA)
- ↳ Silky bright deposition

source: <http://www.icb-germany.de/chemicalsForPrintedCircuitBoards>

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