

Tinning Solution for Copper PCBs

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

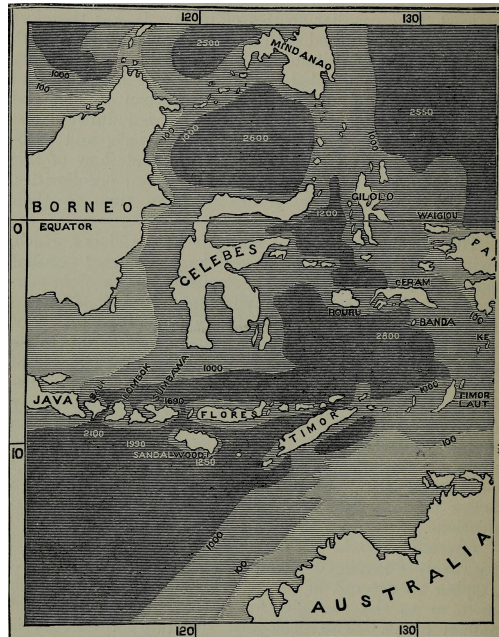


Photo: Wallace, Alfred Russel, 1823-1913 — No restrictions — via Wikimedia Commons (Island life - or, the phenomena and causes of insular faunas and floras, including a revision and attempted solution of the problem of geological climates (1911) (14577256677)).

Tinning solution deposits a thin tin layer on bare copper PCB traces after etching, protecting them from oxidation and improving solderability. Boards that solder easily make better student projects and demonstrate professional finishing.

Key Features

- Water-based tin plating solutions
- Coats etched copper traces
- Prevents oxidation
- Improves soldering
- Bottles treat many boards

Typical Uses in the Workshop

- Protect freshly etched PCB traces
- Improve solderability of boards
- Give a professional finish
- Pre-treat copper before assembly

Safe Operation

1. Clean the etched board thoroughly
2. Dip or brush the tinning solution on
3. Rinse and dry the board
4. Check the traces are evenly coated
5. Solder normally after tinning

SAFETY NOTES

- Wear gloves - solutions can irritate
- Work in a ventilated area
- Keep away from eyes
- Dispose of mixed solution correctly
- Keep bottles sealed

Maintenance & Consumables

- Cap the bottle tightly between uses
- Check the solution stays clear
- Filter when contaminated
- Store out of sunlight
- Label the date opened

Specification & Buying Notes

Water-based tinning solution in the volume the class uses covers a term of boards. Quality solutions tin evenly; old solutions sulphide and fail.