

Copper Polish Process

INTRODUCTION

Copper Polish is an acidic process designed to quickly polish copper.

BENEFITS

Rapid polishing action.
Non-complexing.
Non-nitric

SOLUTION MAKE-UP

Option 1:
Part A 100ml/L
Part B 250ml/L
Water to 1 litre
Option2 see note:
Part A 100ml/L
Part B 250ml/L

OPERATING DATA

Temperature Copper 40-55°C
Time 0.5 – 5 minutes.
Temperature is important; the mix must be at least 40-55°C.
Time is dependant upon the application and number of process cycles that can be tolerated.
For Option 1 mix, 2 –5 minutes is normal.
For Option 2 Mix, 30 seconds to 1 minute.
When polishing PCB's with PTH, we recommend option 2. Care should be taken to test the process before use. Boards with PTH will polish well, but care needs to be taken to ensure that the sharp edges of holes are not eroded. Option 1 mix tends to erode the 90° edges of the drill holes. Option 2 Mix will turn the Copper a deep brown in a very short.

EQUIPMENT

Tanks Polypropylene, PVC or polyethylene.
Heaters PTFE coated with thermostatic control.

INSTALLATION

It is essential that the tanks to be used for Copper Polish are thoroughly cleaned and leached before any product is introduced.

Copper Polish Process

1. If Copper Polish is to be diluted - Half fill tank with water.
2. Add the required volume of Parts A and B.
3. If Copper Polish is to be diluted - make up to volume with water
4. Mix thoroughly
5. Heat to operating temperature

PROCESS SEQUENCE

1. Alkaline clean. Or mechanical scrub and thorough wash.
2. Rinse.
3. Copper Polish process. Copper should turn deep brown with an underlying sheen. Within 0.5 – 5 min's depending on the Mixture used.
4. Rinse.
5. 5% sulphuric acid dip
6. Rinse.
7. Maybe continued depending on application.

DISPOSAL

Dispose of in accordance with local authority requirements.

Note:

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