

Boards printed conductors chemical tinning
Preparation of the solution - on the blank

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Read the following carefully and follow the instructions
Not observed leads to a bad result or failure

protection measures

They contribute to the processing or preparation of the solution rubber gloves and goggles!

chemicals:

In case of contact with skin or eyes with plenty of water, consult doctor if necessary

When swallowed, seek medical attention immediately!

Endsorgung the spent solution

Dispose of the solution in special, NOT pour down the sink

Additional Materials Required

1 container (pot) (A) of glass or plastic 1.5 liter capacity

1 photo tray (B) or flat container of plastic (Tupperware pot)

1 stirring rod or plastic spoon

(Use little calcareous otherwise Distilled water) 1 liter of tap water

1 container Opaque (C) 1.5 L for the storage of the solution (brown glass bottle)

Preparation of the solution

1 Give 1 liter of 50 ° C warm tap water into the vessel (A)

2. Add the chemical is labeled 1 from the set

3 Slowly stir

4 Add the chemical labeled 2 from the set

Has 5 Slowly stir until completely dissolved all

6 Add the chemical called 3 from the set

(May vary depending on water temperature take 3-5 minutes)

7 Ready! Now the solution is ready to use and should be almost clear

8 Complete solution can now be used

if not used immediately they can in the Aufbewahrungsbehälter (C) are filled

Reconstituted solution is enough for about 1.5 sqm boards (depending on the tin layer thickness) about 90 euro cards 100x160 mm

Storage of the reconstituted solution

The first solution is about 6 months used

Second purpose, they should be stored upright at room temperature in tightly sealed and well labeled Aufbewahrungsflasche (C) on a light artillery place.

Using the solution

1 Clean the board to be tinned.

The second make copper lines with fine steel wool bare metal and with acetone (or alcohol) endfernen any grease and residue remains.

The cleaner the board the more the result is better (conductors not now touch)

3 Ready to use solution from container (C) warm to 25-40 ° C, so the EVLT itself. crystals formed therein again solve (warmer than 40 ° C destroys the solution!)

Give 4 solution in the photo tray (B) so that the bottom is about 3-4 cm covered.

5 The purified board in the solution formed immediately put a tin deposits on the bare copper

6 After about 2-3 minutes a tin layer thickness of about 5 microns is achieved

Take 7 board from the solution.

8 remaining solution can be reused (back fill into containers (C))

Aftertreatment of the board

1 Rinse the board with plenty of warm water

Second to dry the board with paper towels, rub with light pressure

3 The tin should then metallic shine.

Special

1 When: The final solution has become yellow after storage and crystals have formed

Then: Then, the solution allowed to warm to 25-40 ° C and the crystals disappear

2 When: The solution smells like hydrogen sulfide (rotten eggs), a bit is normal

Then: The solution here is deep yellow and very smelly then the solution is exhausted or too old