Option for making vias

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# Physical

# Soldering

# Chemical

## Method of activation for further electroplating

Demonstration of process is here: <https://www.youtube.com/watch?v=mfT7RLNSp90>

The recipe is here: <http://whoby.ru/page/gipmed>

The recipe:

* Calcium hypophosphite : 20 g
* : 25 g
* Аммиак (аптечный 10%) - 50 мл.
* Distilled water 100 мл.
* Моющее средство "Капля" - 3 гр.

Preparation:

* To

Use:

# Electrochemical

Making by NurdRage: <https://www.youtube.com/watch?v=auyCK8-DMP0>

Or:

We simply dissolve 65g of copper sulfate pentahydrate in 250mL of water and 33g of sodium carbonate in 150mL of water. Then we mix the two together. Copper carbonate hydroxide precipitates and we filter that off. Then we react the copper carbonate hydroxide with formic acid to create copper formate.

Copper formate has the useful property that it decomposes into copper metal (along with carbon dioxide and hydrogen) when heated. The copper produced this way isn't well bonded and not very conductive. But in upcoming videos additives may be added to improve the quality of the product.