



# TIFOO

## CHROME REMOVER

# MANUAL

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### Check-list for the "Chrome remover"

Before removing chrome, coarse impurities have to be removed, but additional degreasing is not needed.

### Security

Please work with gloves and safety glasses. Avoid at any cost the formation of the toxic yellow chromate. When you see the yellow colour, absorb new chrome remover with the swab immediately so that the yellow colour disappears and that the chromium oxyde can be produced.

### Application fields of the "Chrome Remover"

Removing chrome from fittings, motorcycle parts, rims and many other things. Removing chrome is always necessary when the material can't be directly deposited on chrome surfaces. Gold however can be directly deposited on chrome with our gold electrolyte FLASH, for example. Direct plating with nickel, copper or, for example, rhodium is not possible, so the chrome has to be removed.

### Using the "Chrome Remover"

#### Remove chrome with pen plating:

Clamp the object you want to free from chrome to the positive pole (red) of the power supply. Then connect the Galvano Brush to the negative pole (black). Adjust the voltage to 7.5 volts and absorb the chrome remover with the swab. Then touche the workpiece with the swab and move the pen slowly on the chrome surface. The chrome will disappear on this spot. The chrome remover contains additional active substandes that suppress the creation of the very toxic chromate (intense yellow colour). Traditional chrome removers turn immediately intense yellow, but the Tifoo Chrome Remover transforms the yellow chromate into the much less toxic, light green chromium(III) oxide. When the chrome is completely removed from the spot in question, there will be a yellowish nickel layer underneath. The colour change can be easily distinguished. Keep on removing the chrome until the whole chrome layer has been removed. "Recharge" the swab immediately when the yellow colour of the chromate can be seen.

### **Remove chrome with tank plating:**

You can also remove chrome by tank / immersion plating. To do so, connect the workpiece with the positive pole and a graphite anode to the negative pole. Then remove the chrome with a voltage of 2 - 3 volts.

### **Activate:**

In order to continue with metallizing the nickel layer afterwards, the latter has to be activated. In order to do so, connect the object to the negative pole and the Galvano Brush to the positive pole. Adjust the voltage to 5.0 volts and soak the swab with the activator. Go on like you did for the chrome removing. There will be no colour change, so you have to make sure that the whole surface is treated. Rinse the object afterwards and go on immediately (< 30 minutes) with further treatment (gilding, silver-plating, etc.).

## **Promotion**

Our company is officially sponsored by the European Union.



## **European Union**

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