

Introduction to Electroforming and Working with Wire Mesh
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The Kits will include:

Quantity: 2

12" x 10" Bronze Restoration Window (insect) Screen (14 x18 wires per inch count) Un-Annealed

Quantity: 1

12" x 10" Bronze Restoration Window (insect) Screen (14 x18 wires per inch count) Pre-Annealed

Quantity: 1

12" x 10" Copper Screen (22 x 22 wires per inch count) Un-Annealed

Sources to order Mesh:

Bronze Window (insect) Screen 14 X 18 count

Hardware of the Past: *at least 1 foot.* *This source may have a coating on thier mesh.*
https://www.hardwareofthepast.com/product-p/bz-2250.htm?fbclid=IwAR1wRJV_OeDvOhzKDo3eOBm_IWVEiKprQ5doBUIOsK5vsOM-TeJ46rnYHs

Or...

Mcmaster Carr: Company Requires Minimum order of 2' x 7"

<https://www.mcmaster.com/window-screens/insect-screening-5/material~bronze/width~24/?fbclid=IwAR079RIB4TLQ4nN469YZ8PajLoHRhpMLleW4xL8sBndWPuiSwEg6oRzBlto>

Copper wire mesh (22 x 22 count) Company Requires Minimum Order of 1' x 3' ft.

<https://www.mcmaster.com/9224T941/?fbclid=IwAR079RIB4TLQ4nN469YZ8PajLoHRhpMLleW4xL8sBndWPuiSwEg6oRzBlto>

(Optional) Copper Expanded Mesh (for **RBG** pin or earrings):

https://www.staples.com/Amaco-Wireform-Metal-Mesh-Copper-Woven-Impression-Mesh-1-8-In-Pattern-Mini-Pack-50007G/product_2245664

Supplies to Buy:

Rectifier (Options)

5 Amp Rectifier

https://www.amazon.com/Dr-meter-Single-Output-Switchable-Alligator-included/dp/B00O8DJ8QC/ref=sr_1_3?crid=KWLMNB10KS88&dchild=1&keywords=dr.meter+30v%2F5a+variable+linear+dc+bench+power+supply&qid=1615607626&srefix=dr.meter+5%2Caps%2C166&sr=8-3

OR

30 Amp Rectifier (if you plan to work larger than 3 Gallons)

https://www.ebay.com/itm/30A-Platinum-Plating-Machine-Silver-Gold-Copper-Electroplating-Rectifier-Smooth/253775540084?hash=item3b16336f74%3Ag%3AdXcAAOSwO3VdcF9j&LH_ItemCondition=1000&LH_BIN=1

You will also need: Found at local Hardware and Grocery

Stores Copper Pipe (1/2" to 1" diameter) Quantity 2 of 1' lengths For
Anodes

1 or 2 gallons Distilled Water

Copper Bath (Electrolyte)

Midas Bright Copper Electroforming Solution. One quart should be enough for starters.

<https://www.riogrande.com/product/midas-bright-copper-electroforming-solution/335074>

Other Supplies

Most items that you may already have;

Hand tools:

Scissors

Pliers

Fine wire cutters (flush if possible)

Fine tweezers

(Optional) Small metal ruler

Brass brush

Sandpaper or other abrasive sheet (various grit or micron)

Needle files

Other materials:

Abrasive scrubbies

Copper wire (around 18 to 24 gauge)

2 PP or HDPE containers with lid (I like to use a 32 oz cleaned yogurt container)

Nitrile gloves

Bamboo chopsticks (*keep them connected*)

Plastic funnel

Paper coffee filters

Lots of paper towels

Shallow clear plastic storage container (about shoebox size) for drip

guard (Optional) soft wax (jewelry modeling, pure beeswax or red sprue)

Pickle pot (and pickle) for cleaning oxidized metal

Where to Buy Supplies Online

Rio Grande supplies:

Pliers and wire cutter that I use (absolutely wonderful)

<https://www.riogrande.com/product/lindstrom-pliers-and-cutters-set/111170>

Really Fine tweezers (I use these for patterning)

<https://www.riogrande.com/product/regine-precision-tweezers-style-aa/115286>

Micro finishing film (abrasive)

<https://www.riogrande.com/product/3m-imperial-micro-finishing-film-assortment/337310>

Also Great 3M “Tri-M-Ite” abrasive cloth

<https://www.riogrande.com/product/3m-wetordry-tri-m-ite-polishing-paper-400-grit/337301>

Copper sheet (if used instead of 8 or 10 gauge wire) as anode

<https://www.riogrande.com/product/Copper-6-x-12-Sheet-18-Ga-Dead-Soft/132118>

Brass Brush

<https://www.riogrande.com/product/brass-wire-bristle-brush/113172>

Amazon Supplies

Copper wire (fine 20 gauge)

https://www.amazon.com/Copper-Bright-0-032-Diameter-Length/dp/B000IJW7W2/ref=sr_1_3dchild=1&keywords=Bare+Copper+Wire%2C+Bright%2C+20+AWG%2C+0.032%22+Diameter&qid=1600972416&s=industrial&sr=1-3

Gloves

https://www.amazon.com/gp/product/B000JFJLZ6/ref=ox_sc_act_title_4?smid=A23ADOZFIJNPF&psc=1

Wood Chopsticks

Can be found at most eastern restaurants for free OR:

https://www.amazon.com/gp/product/B01JJBV0NQ/ref=ox_sc_act_title_1?smid=ADJ8GJXNTQ637&psc=1

Scrubbies

https://www.amazon.com/gp/product/B0768JLFR2/ref=ox_sc_act_title_3?smid=AJMQR798MDSQU&psc=1

Trays

https://www.amazon.com/gp/product/B003HEQMNK/ref=ox_sc_act_title_2?smid=ATVPDKIKX0DER&psc=1

Filters

https://www.amazon.com/gp/product/B00AZ3AU8O/ref=ox_sc_act_title_5?smid=ACTB8CBED46SR&psc=1

Funnel

https://www.amazon.com/gp/product/B000HJBFC6/ref=ox_sc_act_title_6?smid=ATVPDKIKX0DER&psc=1

Pliers and Wire cutters (cheap)

[https://www.amazon.com/gp/product/B07QVPGX7H/
ref=ox_sc_act_title_8?smid=A35XSC3YNT0H0M&psc=1](https://www.amazon.com/gp/product/B07QVPGX7H/ref=ox_sc_act_title_8?smid=A35XSC3YNT0H0M&psc=1)