

Non Enamel Supplies & General Studio and Safety Supplies

Stainless steel sieve for sieving the Liquid enamel (you can buy small glaze sieve or an ultra fine multi layer cooking sieve)

Distilled water 1 gallon (for mixing the liquid enamel)
eye dropper

2 squeeze bottle 2-4 ounces prefer with lids (so you can drop out distilled water a few drops at a time and have a bottle of mixed klyr-fire and water)

Containers for mixing liquid enamel in (I prefer pyrex with lid, I buy them at the thrift store)

2 **PLASTIC** containers, both large enough to your hold pieces **NOT** glass or metal, In one you will pour the glass etch into and immerse your piece, the second container is for water and baking soda to neutralize the piece once you remove it from glass etch. I often use a yogurt container or flat plastic take out box

Baking soda

Acid resistant gloves

4-6 plastic bottle caps, preferably same height

Catalogues/paper to work on, shiny paper preferable rather than bond

Green scotch brite pad

Pumice powder or baking soda & vinegar or Commercial copper cleaner like pennybrite NOT a cream based polishing compound: this is for cleaning the copper prior to enameling

Paint brushes varying sizes

Metal spoon

tweezers

couple sharp tools like a needle tool or old dental tools

one exacto knife not the retractable kind

24-20 Copper sheets or pieces if you prefer there are pre cut shapes at both (don't buy beads):

<https://www.riogrande.com> or <https://www.e-enamels.com>

Copper wire various thickness 24—20 gauge

Iron or steel binding wire (**not galvanized**) 24-28 gauge

Used sawblades

Paper of different types for stencil materials (optional)

General metalsmithing/studio tools:

Chasing tools/punches/hammer and pitch: if you don't have these an old hammer and some old chisels on a block of wood will allow you to experiment, lots of time you can find them at a yard sale or purchase a cheaper chisel & hammer at the hardware store

Fire-proof surface (I have a stainless steel countertop but cement board or tiles work great if you have a wood countertop)

Fordom or drill or dremel tool

Drill bits (size depends on the kinds of holes you want to make)

Access to rolling mill

Patterned paper, different textured card stock, designs cut into card stock, string, leaves, plate materials.

Saw frame and saw blade or hand shears

paper towels and/or rags

water source or jugs of water

bucket

flat trays for stoning enamels, like old photo trays; if you have a recovery system in your sink drain and can stone the enamels under running water you do not need these. If you don't have a recovery system you can also put a bucket or pan in the sink to capture the water and dust **Don't let the stoning dust go down the drain as it will clog the drain and if on septic tank will damage the septic system**

Ventilation system

Torch for annealing, you can also use the kiln.

Pickle

Respirator or dust mask

NorthTM 7700 Series 7781P100S almost all women need size small. Some men need small also, but perhaps medium

Place this description in your browser and it will find places for you to buy it.

You may need to purchase the mask and filters separately. Half mask and cartridge.

These are the best cartridges: NorthTM 7700 Series 7781P100S 75SCP100 OR 7583P100

1 pair of tinted eye protection is recommended. Here's what I own and cost \$155:

<https://www.phillips-safety.com/shop/glassworking/glass-working-safety-eyewear/glassworking-safety-glasses-boroview-3-0-model-70pc-gb-g3-70pc/>

These are the best, I get Standard - no coating on mine.

Less expensive option. This different tinted eye protection option.

1 pair <http://www.phillips-safety.com/welding-safety/torch-brazing/model-33-fitover-torching-welding-safety-glasses-wld-s-33.html>

I prefer shade 4 for the extra protection, but you do need to get used to them

Fire extinguisher

**Liquid Enamel: Lines, Marks, Stitches
Enamel Suppliers:**

E-namels Sell Thompson, W.G. Ball, Vintage leaded enamels, Japanese leaded, Milton Bridge/Bythe leaded enamels, sunshine enamels, tools, precut shapes	https://www.e-namels.com
His Glassworks Sells grinding and glass finishing/drilling and 3M Diamond sticks and pads	https://www.hisglassworks.com
Thompson Enamels Sells Thompson liquid and granular enamels, tools, equipment, painting and acrylic enamels	https://thompsonenamel.com
Rio Grande Sells Thompson enamels and supplies, assorted tools & firing supplies, kiln	https://www.riogrande.com

Enamel Supplies

Thompson dry pourable enamel 4 oz white 533 dry form	https://thompsonenamel.com/product/liquid-form-enamel-colours/
OPTIONAL: Thompson dry pourable enamel 4 oz dry form or WG Ball Wet Process Enamels any colours you are interested in working with	https://thompsonenamel.com https://www.e-namels.com (sells WG Ball enamels in US) https://www.wgball.co.uk/product-category/wet-process-lead-free-enamels-on-copper-supplied-in-liquid-form/
Etchall Dip'N Etch	Etchall.com
Alundum stones	Rio Grande 220 350030 Rio Grande 150 350029
or diamond sticks or pads	https://www.hisglassworks.com/grinding-tools/hand-grinding.html
24-20 Copper sheets or pieces if you prefer there are pre cut shapes at both (don't buy beads):	https://www.riogrande.com or https://www.e-namels.com
Copper wire various thickness 24—20 gauge	https://www.riogrande.com
Iron or steel binding wire (not galvanized) 24-28 gauge	
Kiln	
Firing screen (needs to fit in your kiln)	Rio Grande 8 mesh My preferred is 6x6 www.enamelsupply.com Thompson
Trivets	E-namels 2 small, med large
Firing Fork or spatula	I prefer Thompson K-4 Firing Fork
Fireproof gloves	