

Supply List

SUPPLY ITEMS	SUPPLIERS
Direct Reduction Smelting of Copper Oxide Ore	
Malachite (Ore)	Ward's Scientific
Charcoal (Fuel) (Natural Hardwood Charcoal, NOT Charcoal "Briquettes")	Grocery/Hardware Store
Forge	Centaur Forge
Coal (Fuel for Forge)	Centaur Forge
Crucibles, Clay-graphite	Centaur Forge
Direct-reading Thermocouple	Omega, Fisher Scientific
Balance Sensitive to 0.1 grams	Omega, Fisher Scientific
Calculator	Electronics Store
Tweezers	Fisher Scientific, The Compleat Sculptor
Lost-wax Casting of Copper-Silver Alloy Bar Ingots	
"Sticky Wax"	Remet, The Compleat Sculptor
Sculptors or Dental Pink Wax, Sheets	Remet, Rio Grande, The Compleat Sculptor

Beeswax or Sprue Wax	Remet, Centaur Forge
Bunsen Burner or Alcohol Lamp	Fisher Scientific
Various Dental and Sculpting Tools	The Compleat Sculptor
Cardboard Tubes/Paper Cups of Various Sizes/Diameters Large Bucket for Mixing Ceramic Power Mixer	
<i>Ceramic</i> Core Mix, Fine Grind Binder: R-25 Ethyl Silicate	Remet Remet
Ethyl Alcohol	Fischer Scientific
Catalyst: Ammonium Carbonate	Alfa Aesar
Distilled or Deionized Water	Fisher Scientific or Local Science Department
Clay: Mississippi M&D has Highest Green Strength	Local Pottery or Sheffield Pottery
Safety Goggles with Side Shields	Lab Safety Supply, Zar-Tech
Hearing Protection During Grinding, Hammering	Lab Safety Supply

Particle Masks	Lab Safety Supply
LaTeX Gloves	Lab Safety Supply
Labcoats	Lab Safety Supply
Flame Retardant Apparel (Aluminized/Kevlar)	Omega, Zar-Tech
Casting and Working Copper-Silver Alloys	
Furnace for Warming Mold	Omega
Metal Shot for Melting and Casting	Alfa Aesar
Forge	Centaur Forge
Clay-graphite Crucibles	Centaur Forge
Pouring Tongs	Centaur Forge
Firebrick	Zar-Tech
Wire Brushes	Centaur Forge
Hacksaw	Hardware Store
Grinder, Files	Centaur Forge, The Compleat Sculptor
Vise/Clamp	Centaur Forge
Anvil	Centaur Forge
Tongs for Gripping Ingots	Centaur Forge
Assorted Hammers (Cross Peen, Straight Peen, Ball)	Centaur Forge

Peen, for example)	
Slack Tub (Large Bucket or Tub of Water for Cooling Casting in Mold) Assorted files	Centaur Forge, The Compleat Sculptor
Dilute Sulfuric Acid	Fisher Scientific
Wide-mouthed Glass Dish, ca 10 cm height, 25 cm diameter) for pickling	Fisher Scientific
Dark Room Tongs	Local Photography Store or Calumet
Safety Goggles (clear and tinted) with Side Shields	Lab Safety Supply
Hearing Protection during Grinding, Hammering	Lab Safety Supply
Particle Masks	Lab Safety Supply
LaTeX Gloves	Lab Safety Supply
Labcoats	Lab Safety Supply
Flame Retardant Apparel (Aluminized/Kevlar)	Lab Safety Supply, Zar-Tech
Leather Aprons, Gloves	Centaur Forge

Suppliers

- [Alfa Aesar](#)
26 Parkridge Rd.
Ward Hill, MA 01835-8099
(800) 343-0660
Technical service: (800) 343-7276
- [Calumet Photographic](#)
(800) 225-8638
- [Centaur Forge, Ltd.](#)
117-TR N. Spring St.
P.O. Drawer 340
Burlington, WI 53105-0340
(262) 763-8350 or (800) 666-9175
- [The Compleat Sculptor, Inc](#)
90 Vandam St.
New York, NY 10013
(800) 972-8578
Fax: (212) 243-6374
- [Fisher Scientific](#)
Customer service: (800) 766-7000
Fax: (800) 926-1166
- [Lab Safety Supply](#)
- [Omega Engineering, Inc.](#)
1 Omega Dr.
P.O. Box 4047
Stamford, Ct. 06907-0047
(800) 848-4286
Fax: (203) 359-7700
- [Remet](#)
210 Commons Rd
Utica, NY 13502-6395
(315) 797-8700 or (800) 445-2424
Fax: (315) 797-4477
- [Rio Grande](#)
(800) 545-6566
Fax: (800) 965-2329
- [Sheffield Pottery](#)
Rte. 7, Box 399

Sheffield, MA 01257
(413) 229-7700 or (888) 774-2529
Fax: (413) 229-0200

- [Ward's Natural Science Establishment, Inc.](#)
P.O. Box 92912
Rochester, NY 14692-9012
(716) 359-2502 or (800) 962-2660
- [Zar-Tech](#)
17 Malcolm Hoyt Dr.
Newburyport, MA 01950-4017
(978) 462-0200
Fax: (978) 462-2782