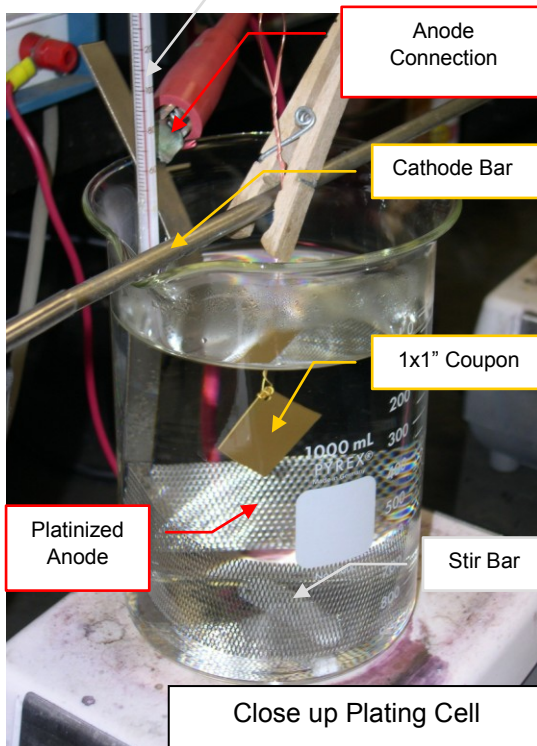
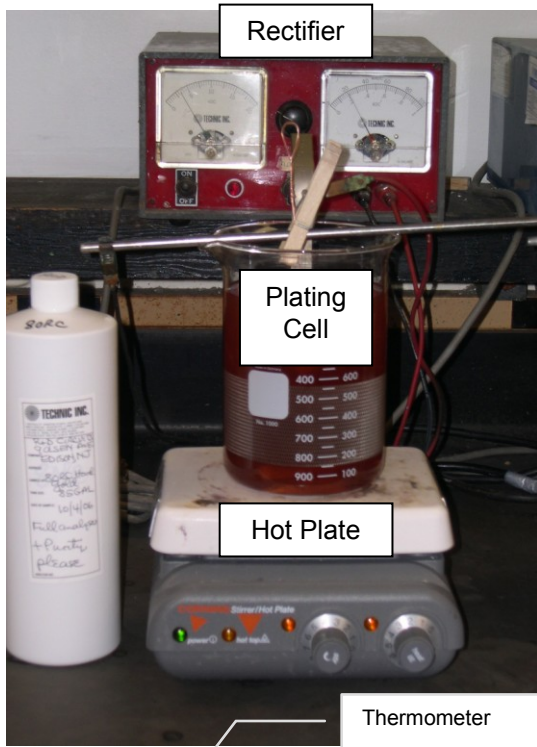


Preparation of Foil Samples For Purity And Hardness Analysis



Equipment:

- Platinized Anode: mesh extending along interior circumference of 1 liter beaker place 1/2 inch off bottom of beaker
- Rectifier: 0-5 amp
- 1" X 1" brass or copper coupon with hole for copper wire in one corner
- 1 liter beaker
- Stir/hot plate

Cleaning/Activation of Coupon

	Process Step	Chemistry	Time	Temp
1	Alkaline Clean	Cathodic Electroclean	30 seconds	120 °F
2	Rinse	City water	30- 60 seconds	Room Temp
3	Rinse	City water	30- 60 seconds	Room Temp
4	Activate	30% Hydrochloric Acid	10-30 seconds	Room Temp
5	Rinse	City water	20 – 30 seconds	Room Temp
6	Plate	See gold Category Table	4 hours	Bath operating Temp

1. Determine what category of gold bath is to be tested and determine plating conditions per the table on the following page.
2. Pour one liter of plating solution into 1000 ml plating cell. Turn on stir bar and heat it to operating temperature.
3. Hang 1'x1" coupon on copper wire and clean coupon per the procedure outlined above.
4. Clip the negative lead to the cathode bar and the positive lead to the anode.
5. Attach the coupon to the cathode and turn on the rectifier. Adjust amperage per the table on page 2.
6. Plate for time specified.

