

Creating A Copper Wire and Silver Solder Pen

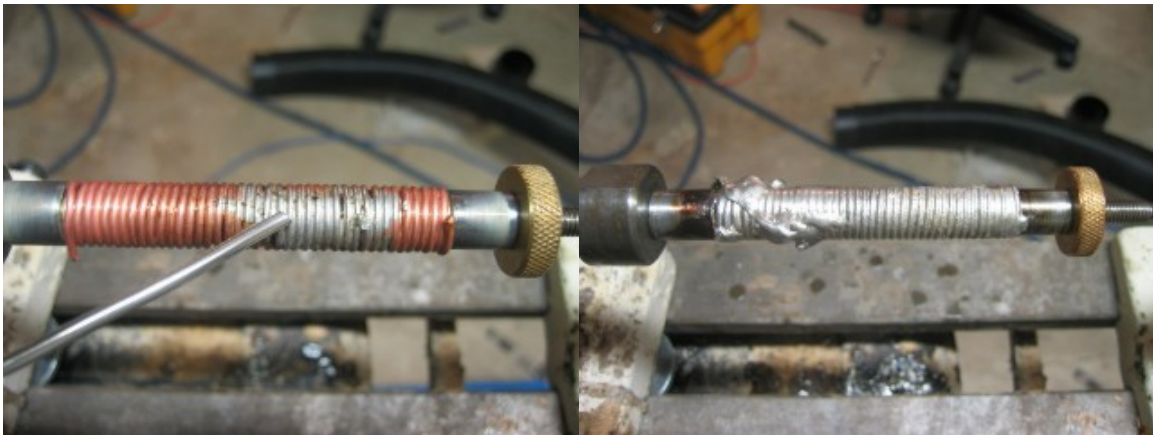
This is a tutorial on how to make a pen like the one below:



- 1) Select the pen you wish to use take the tube and start to wrap the copper wire around it. I am using 14 gauge copper wire here. Continue to wrap the wire around the tube until it is completely wrapped. While wrapping you can leave small gaps but not too large because the solder will not fill them.



- 2) Take the tube to the lathe put and put it on the mandrel with the bushings.
- 3) Apply some soldering paste or flux.
- 4) Heat up the copper just until the solder melts. The solder is lead free silver solder that you can get at any hardware store.
- 5) Apply the solder until all gaps are filled.



- 6) Wait till the tube cools and then start to turn. You may use standard HSS tools as I do but carbide tools would work better with less sharpening. Be very careful of the shavings they are extremely sharp.
- 7) Once you have turned it to shape start to sand. You may have to sand a bit to get the ridges down. I sand to 320 grit then Micro Mesh to 12000.



8) You may apply a coat of lacquer, powder coat, or just leave it bare to change color with use.

This is a fun and easy way to make an interesting pen. Below is a picture of the final pen made during this tutorial. I turned off some of the copper and replaced it with Corian.



Hope you enjoy

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