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Texturing Metal

Reticulation And Other Texture Techniques



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If you have comments or suggestions about this project, please feel free to email me. I would love to hear from you.

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Introduction

Reticulation is a heat-induced metal texturing technique. Although time consuming, reticulation opens many possibilities and the results are unpredictable, fun to produce, and often stunning. By varying the size of the torch nozzle, speed of movement, force of the flame, distance from the metal, angle of the torch, etc., you will produce different surface patterns. With experience, you can even achieve a somewhat predictable result. If you're reticulating for the first time, order extra metal to allow for mistakes and experimentation.



What You Will Need

Materials

22-gauge reticulation silver

Tools

Torch with various tips
Fireproof surface
Pickle pot with fresh pickle
Copper tongs
Soft brass brush
Dishwashing detergent

Let's Get Started



1. Place sheet of 22-gauge reticulation silver on flat soldering surface. Use a large torch tip and heat metal to dull red or annealing temperature and remove flame.

Tip: For best results, use fresh clean pickle for this project.



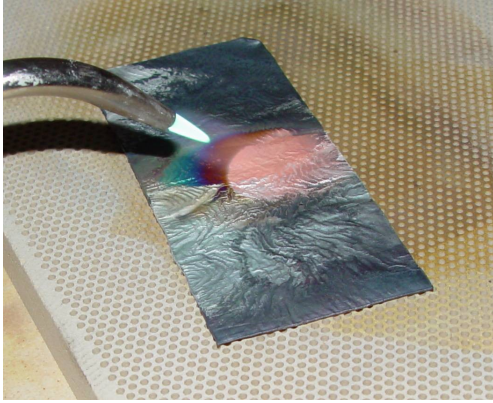
2. Allow piece to cool for about a minute and then quench it in pickle pot. The metal will still be hot, so be careful and always use safety precautions when working around pickle. After a few minutes, piece should turn a chalky white color, which means oxides have dissolved. Using copper tongs, remove metal from pickle pot.



3. Clean and gently brush metal with soft brass brush and soapy water. Rinse well and wipe dry. **Repeat the above steps as outlined six to eight times.** Metal is ready for reticulation when surface remains a white color after heating to annealing temperature.



4. Place metal on flat fireproof surface. Using torch and medium sharp flame, heat entire piece.



5. Once metal is hot, concentrate torch on small area of metal until heated to dull red. Watch for surface layer to turn shiny, then move torch along, being careful not to stay in one place long. Metal will begin to crinkle as you move heat to next section. Work your way over entire sheet without stopping until whole piece has been reticulated. Allow piece to cool, then pickle. Wash with warm soapy water and brass brush to burnish metal and bring back shine.

Reticulation Troubleshooting

Some people prefer to reticulate on a flat solderite pad and others will only reticulate on a firebrick. What you have available should work just fine. Be sure it is a clean, relatively flat fireproof surface.

A deeper layer of fine silver on the surface will create a more pronounced texture. A few more repetitions during the annealing process will increase the surface layer of fine silver.

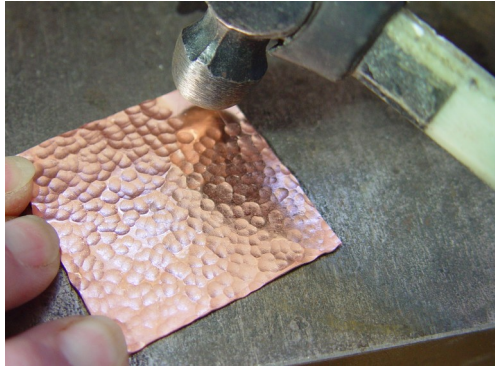
Don't try and rush the process by reticulating the metal before the entire surface has a fine layer of silver.

When heating for reticulation, if the piece turns a glowing red, pull back on the torch and allow the metal to cool a bit before you proceed. When the surface is shiny, the fine silver has melted. To get the piece to reticulate, you must move the heat at a steady pace; like mowing your lawn. If you concentrate the heat on a shiny area, it is likely you will burn a hole in the piece. Relax and experience the process.

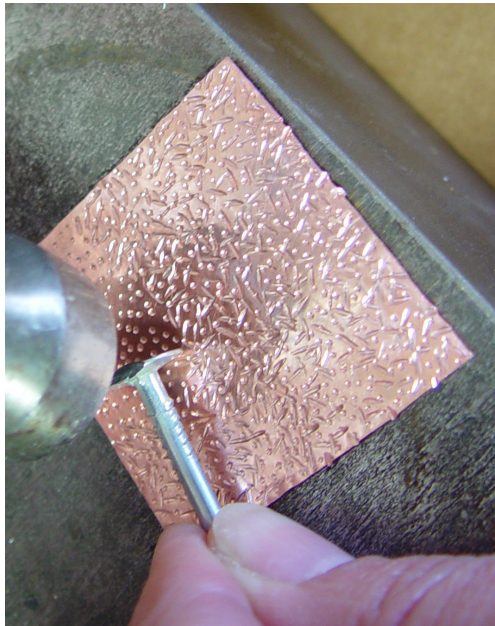
Remember the results are variable, so enjoy the diversity present in the finished piece.

Other Textures

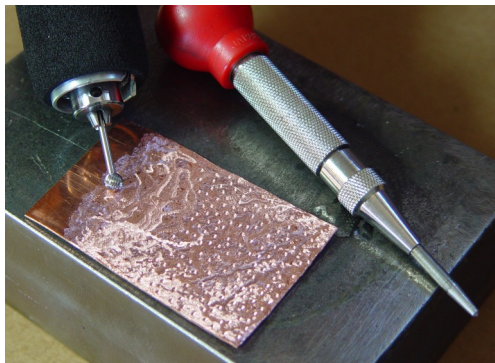
Metal can be textured in many ways. With the use of a roll mill, miscellaneous stamping tools, a hammer, the flex shaft, or a torch, the assortment of textures that can be achieved is unlimited. I like to experiment with textures using small pieces of copper sheet. Because the expense is minimal, it allows for more freedom to explore and a more relaxed approach to attaining an appealing, suitable texture. Shown are a few textures which can be created quickly.



A. By applying a consistent number of strokes to the metal's surface with a ball peen hammer, I made a simple, appealing texture. For a variation, use round punches in different sizes.



B. I used a roofing nail to create this striking texture. Tapping lightly on the nail head produced the indentation. Once dots covered the entire surface, I placed the nail on its side and struck the edge to make linear grooves.



C. To texture the background of this piece, I used a flex shaft with a pearl-setting bur. Then I used a spring-loaded center punch to randomly dot the surface.

I like making my own textures as I create my jewelry designs. Experiment with tools you have available and see how fun it is to create textured metal using your creative inspiration.

If you would prefer a manufactured texture, the choices are infinite. Various jewelry suppliers carry an endless selection of patterned sheet silver, crinkle bi-metal, etched and laminated metal, etc. You can even purchase sheet silver that has been reticulated.

More Possibilities



small, flat , cross-peen hammer



small dapping punch



Casting in cuttlebone



lace in roll mill with mokume



etching



folded metal

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