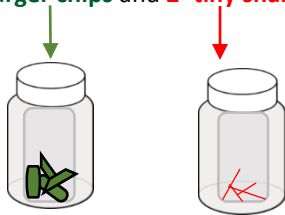


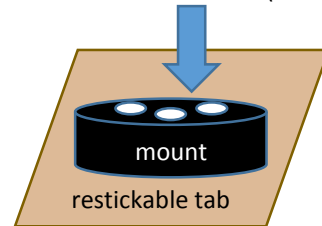
How to make a polished standard mount

by Cathleen D. Brown and Timothy Gooding

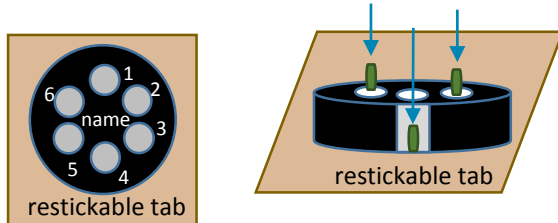
Step 1: Look over vials of standards. Separate standard vials into two groups: **1-larger chips** and **2-tiny shards**.



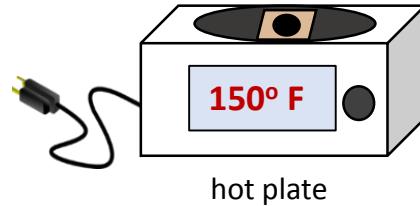
Step 2: Press a < 3mm thick bakelite (or phenolic based compound) mount onto sticky side of a 1" x 1" piece of Scotch® Restickable Tab (Catalog # R100).



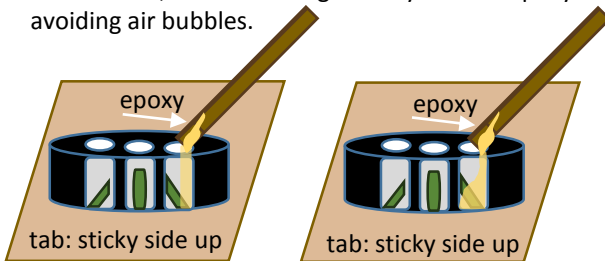
Step 3: Using a pencil, name mount and number holes to make a key for the mount. Then fill holes with standards that have **larger chips** of material by pressing them gently against the restickable tab.



Step 4: Set hot plate to **150° F**. Put mount plus sticky tab onto hot plate.



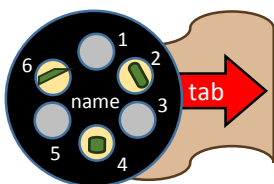
Step 5: Drip epoxy (for example: EPO-TEK® 301) down the edge of the hole and down the wall of the hole. In this manner, the hole will gradually fill with epoxy avoiding air bubbles.



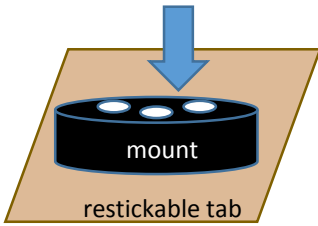
Step 6: Let cure (harden) for 24 hours.



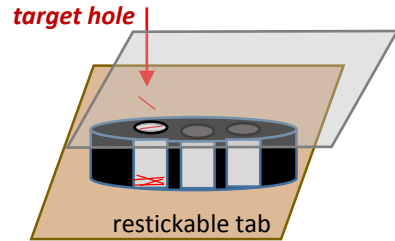
Step 7: Remove tab and grind on **600-1200 grit** paper to expose grains.



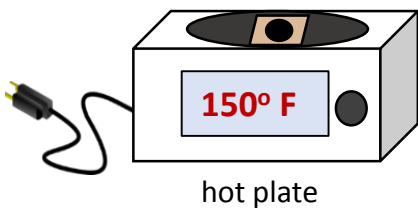
Step 8: Press ground side of mount onto a 1" x 1" square of Scotch® Restickable Tab.



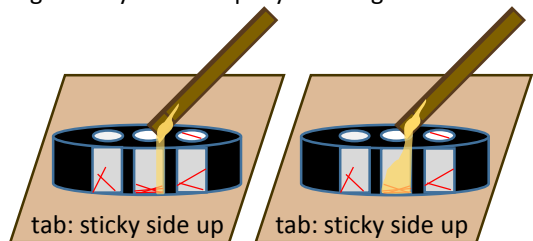
Step 9: Fill each unfilled hole with standard **shards** pressing them gently against the restickable tab.
** It is useful to cover all but **target hole** with a paper or metal cover to avoid dropping chips into other holes.*



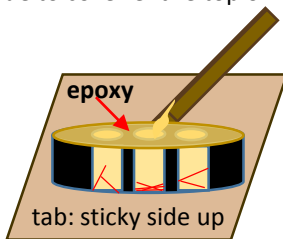
Step 10: Place the mount plus sticky tab onto a hotplate set at **150° F.**



Step 11: Drip down the edge of the hole and down the wall of the hole. In this manner, the hole will gradually fill with epoxy avoiding air bubbles.



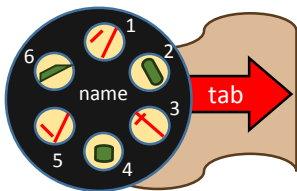
Step 12: After all holes are filled with epoxy, continue to cover entire top of mount.



Step 13: Let cure (harden) for 24 hours.

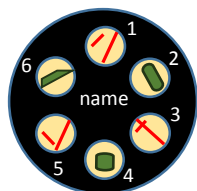


Step 14: Slowly remove tab from mount.

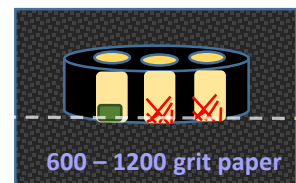


Step 15: Cautiously, grind mount on **600-1200 grit paper** to expose **shard** (tiny grain) **surfaces**. **Be careful** not to grind away all the **shards**.

Step 16: Put final polish on mount.



view of polished side



grind limit