Mi-Tique® 1795

Mi-Tique 1795 is a room temperature blackening solution for pewter, tin, or lead alloys.

Features & Benefits

Selenium free	Elimination of selenium disposal
Uniform deposition coating	Easily relieved to get varying levels for worn antique appearance
ROHS compliant	Product good for use in Europe

Operating Conditions

Instructions

Mi-Tique 1795 liquid concentrate is diluted with water and used at room temperature as an immersion "oxidizing" solution. The depth of black developed and the reaction rate is controlled by varying the concentration and the length of immersion. Prior to charging a production tank, some experimentation should be done with properly prepared sample parts to determine the conditions required to produce the desired depth of black. As a starting point, dilute one (1) part Mi-Tique concentrate with three (3) parts water and immerse parts for 1 to 2 minutes. Varying the amount of water will shorten or lengthen the immersion time.

Equipment

Acid resistant tanks, tumbling barrels, baskets, and racks must be used with the Mi-Tique solutions. Plastic, plastic lined, rubber lined, glass or stoneware are suitable. Mild steel may be used for the cleaning, rinsing and sealant tanks.

Finishing procedure

1. Thoroughly clean and degrease pieces to be blackened with the appropriate Hubbard-Hall cleaner.
2. Rinse with cold water.
3. Remove surface oxide if present with the appropriate Hubbard-Hall Acid Salt.
4. Rinse with cold water.
5. Immerse pieces in the Mi-Tique 1795 solution for the length of time necessary to achieve the desired depth of black.
6. Rinse with hot or cold water and force dry.

7. A variety of attractive antiqued or "highlighted" finishes are produced by buffing, scratch brushing, barrel, or vibratory burnishing.

8. A protective topcoat should be applied to enhance the color and give added abrasion and corrosion resistance. The appropriate Hubbard-Hall Metal Guard should be applied to obtain the desired finish.

Note: If used on plated surfaces, minimum plate thickness should be 3 to 4 mils.

Solution Replenishment
The solution is gradually depleted through use but may be replenished indefinitely with periodic additions of the Mi-Tique 1795 concentrate. The strength of solution can be maintained by noting the time of immersion. When the time required to produce the desired depth of black increases, add enough concentrate to reduce the time to your established standard. The frequency of additions will depend upon the volume of work processed.

Test Kit Method

Equipment required
1 10 mL Graduated Cylinder
1 150 mL Beaker
1 2 oz Dropping bottle Bromothymol Blue indicator
1 4 oz Dropping bottle 12.0 Normal Sodium Hydroxide

Procedure
1. Transfer 5 mL sample of the production bath into the 150 mL beaker.
2. Add 10 mL clean water to this sample.
3. Add 6 drops of the Bromothymol Blue indicator.
4. Add the 12.0 N Sodium Hydroxide dropwise to the sample solutions while swirling the solution and counting the drops added. The indicator color change is from yellow to blue green to blue.
5. Record the number of drops used.

Calculation

Concentration = # Drops 12.0 N NaOH x 1.94

Note: A bath of 1-part Mi-Tique 1795 to 2 parts water is 33% by volume and should require 17 drops.

Caution

The Mi-Tique 1795 solution is strongly acidic. Avoid contact with eyes, skin, and clothing. Wear eye shields, protective gloves, and aprons. In case of contact, flush skin with generous amounts of cold water and obtain medical attention. Read and understand OSHA Safety Data Sheet and drum warning labels prior to working with or handling this product.

WARRANTY: THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.

Our people. Your problem solvers.

For more information on this process please call us at
1-800-648-3412
or techservice@hubbardhall.com