

## Washfast Acid Dyes – High Temperature Immersion

To prepare a **1.0% Dye Stock Solution**, paste **10 grams** of washfast acid dye powder in a small amount of boiling distilled water. Add hot distilled water gradually to total **1000 ml**, mixing thoroughly.

### Dye Procedure for 1 ounce of goods

1. Wet out goods in a solution of warm (110 degrees F) water to cover, to which you've added **1/2 tsp** of Synthrapol per pound of goods. Soak goods for at least 30 minutes in this solution.
2. To prepare the dye bath, mix together **4 cups** of water (cold tap water which you have warmed to 110 degrees F), **3/4 tsp** of Calgon, **.75 grams** of salt, and **1.5 ml** of 28% acetic acid. Add a drop of Synthrapol and the dye stock solution(s) needed for the color and value desired. Stir to mix thoroughly.
3. Add the wetted out goods, first squeezing out excess liquid. Immerse the goods and stir gently for 3-5 minutes to saturate it evenly with the dye solution. Gradually raise the dye bath temperature. Because the dye bonds to the fiber when the dye bath temperature goes above 150 degrees, it is particularly important to gently lift and turn the goods frequently at that point.
4. Gradually raise the temperature of the dye bath to a boil (not above 185 degrees F for silk), and hold the temperature at that level for about 45 minutes, to make a total dyeing time of 60 minutes. Stir intermittently by gently lifting and turning the goods. Keep the amount of liquid in the dye bath constant by adding hot water as it evaporates (move goods to the side of the container when adding the hot water).
5. If after 60 minutes the dye bath still has lots of color left in it, slowly add **5.5 ml** of white distilled vinegar to the dye bath (don't pour it directly on the fiber). Simmer the dye bath for another 10 minutes.
6. When the dye bath is finished, turn off the heat and allow the goods to cool to room temperature in the dye bath. Remove goods and rinse gently in water of similar temperature; then wash it gently in warm, soapy water, using a drop of Synthrapol. Rinse well and repeat the process until the rinse water is clear. Squeeze out excess water, and allow the goods to dry out of direct sunlight.

<u>Values</u>	<u>Amount 1.0 % stock per 1 ounce goods</u>	<u>To Mix Secondary Colors</u>
Very pale	3/4 tsp	
Pale	1-1/2 tsp	orange:
Light	1 Tblsp	green:
Medium	2 Tblsp	violet:
Dark	4 Tblsp	
Very dark	8 Tblsp	