



Dyebook

# Solid Shade Immersion Dyeing on Wool

Breeze, Arctic Ice 20038

Weight of Goods: 100.0 grams, DOS: 1.5%

The pure colors used to make **Arctic Ice** are:

- WF Sun Yellow 119 - 19.0%
- WF Magenta 338 - 9.0%
- WF Brilliant Blue 490 - 72.0%

## Step 1. Wet out the fiber

Soak the fiber for at least 30 minutes in enough warm wetting solution to completely cover it. To prepare a batch of wetting solution, add ½ teaspoon (2.5 ml) of 10% Synthrapol solution for every liter of water. If you don't have Synthrapol, add a few drops of dish soap for every liter of water.

## Step 2. Prepare the acid bath solution

- 3.0 liters of room temperature Water
- Acid (**CHOOSE ONE**):
  - 3.0 grams of Citric Acid Crystals or 30.0 ml of 10% Citric Acid Solution **OR**
  - 3.0 grams of Ammonium Sulfate Crystals **OR**
  - 33 ml of Distilled White Vinegar
- 3.5 grams of Non-Iodized Salt or Glauber Salt or 35.0 ml of 10% Salt Solution (optional)
- 7.5 ml of 10% Synthrapol Solution (optional)

Add the acid, salt and Synthrapol to the water and mix thoroughly.

## Step 3. Measure the dye

Make 150.0 ml of a 1% solution of **Arctic Ice**. Use the **Dye Stock Solution** page to get instructions for making the 1% solutions of each component color. Unused dye solutions can be stored for up to 6 months in a plastic container with a tightly fitting lid.

- 28.5 ml 1% WF Sun Yellow 119
- 13.5 ml 1% WF Magenta 338
- 108.0 ml 1% WF Brilliant Blue 490

## Step 4. Set up the dye bath

Pour the acid bath solution prepared in Step 2 into a stainless steel or unchipped enamel pot large enough that you can move the fiber around in it without spilling any of the dye bath. Add the dye measured in Step 3. Stir to mix well.

## Step 5. Dye the fiber

Gently squeeze the excess water out of the fiber and place it in the dye pot. Stir it gently to evenly distribute the dye. Slowly raise the temperature of the dye bath to about 200 °F (93 °C). If your fiber contains silk, do not exceed 185 °F (85 °C) or you may dull the luster of the silk. Maintain the proper temperature of the dye bath for about 60 minutes, while stirring intermittently. After 60 minutes, check the color of the dye bath. If the

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water still has a lot of color in it, add additional acid. Add up to half the original amount of acid, pushing the fiber to the side of the dye pot so that you do not pour the acid directly onto it. Simmer for another 15 to 30 minutes.

### Step 6. Rinse the fiber

Wait until the dye bath cools to room temperature and then remove the fiber and gently rinse it with room temperature water. Squeeze out the excess water and let the fiber air dry.

### Project Notes:

This document is an example of a recipe for solid shade immersion dyeing. Use your recipes to document your dyeing projects. Print them out and attach samples of the dyed yarn or fleece. Place them in clear page protectors and store them in a three-ring binder.

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