

CATALOG NUMBER 06-0120 TO MAKE 1 LITER
CATALOG NUMBER 06-0130 TO MAKE 2 LITERS
CATALOG NUMBER 06-0140 TO MAKE 4 LITERS

PHOTOGRAPHERS' FORMULARY

FORMULARY NELSON GOLD TONER

Nelson Gold Toner produces tones that vary from just a hint of warmth to rich sepia-browns. The depth of the tone depends upon the duration of time the print remains in the toning bath and the type of paper used. The toner is useful in portrait photography where it can be used to diminish the impact of cold black tones.

FOR YOUR CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. Please read the warning label on each package of chemicals. Three chemicals in this kit need special attention.

SILVER NITRATE: Is a caustic and may cause skin burns. If you wish to dispose of solid silver nitrate, wash it down the drain with excessive amounts of water.

If solid silver nitrate should come into contact with the skin, a chemical burn may result. Wash the area with cold water followed by soap and water. Treat any chemical burn in the same manner you would treat a heat burn. When spilled on the skin, dilute solution of silver nitrate will cause the skin to turn brown. The brown color is due to silver metal bound to the protein of the skin and cannot be washed off. While there are chemical methods for removing the brown stains, the best procedure is to just let them wear off.

GOLD CHLORIDE: like silver nitrate, is a caustic and can cause skin burns. In dilute solution, gold chloride will stain the skin purple. The purple stain cannot be chemically removed. The only procedure for removal of the spots is to let them wear off. If you are concerned with finger stains, we strongly urge you to use rubber gloves, such as Playtex gloves, when working with this toner.

The user assumes all risks upon accepting these chemicals. IF FOR ANY REASON YOU DO NOT WISH TO ASSUME ALL RISKS, PLEASE RETURN THE CHEMICALS WITHIN 30 DAYS FOR A FULL REFUND.

Consult with local sewer and water authorities regarding proper disposal of darkroom chemicals in your area.

MIXING THE SOLUTIONS

Stock Solution A

To prepare Stock Solution A, two solutions (called Solution 1 and Solution 2) will be prepared first then mixed. You will need two temporary containers. One container should have a capacity of 1 liter (or 2 or 4 liters) and the other temporary container should have a capacity of 16 ml (or 32 or 64 ml). You will also need a storage container.

Wash the vial itself, the cap threads on the vial, and finally the cap. When gold chloride is present in the wash water it will be yellow. When you are convinced that all of the gold chloride has been transferred, pour the water remaining in the graduated cylinder into the Solution B container. Cap and shake (or stir) the container to ensure the solution is homogenous.

MIXING THE WORKING SOLUTION

To prepare the working solution, one-half of Stock Solution B is added to Stock Solution A. The remaining one-half of Stock Solution B is used as a replenisher for the working solution. Volume of Stock Solution B to be added to Stock Solution A to prepare the working solution

Kit Size	Volume of B
1 liter	31.5 ml
2 liters	62 ml
4 liters	125 ml

Measure the correct volume of Stock Solution B in a graduated cylinder and pour it into Stock Solution A. (Be sure the container for Stock Solution A will hold the combined volumes.) Cap and shake (or stir) the resulting mixture to ensure it is homogenous. Set the working solution aside until a precipitate has formed and settled. An overnight standing should be sufficient. Do not use the working solution until the sediment has formed.

USING THE TONER

Before toning, a wet, freshly fixed print should be washed a few minutes. Dry prints should be soaked in water. For best results, use two prints: one to be toned and one for comparison. Very carefully decant the working solution into the tray. Do not pour the sediment in the working solution into the toning tray.

For proper toning, the working solution must be maintained at a temperature between 38°C/100°F and 43°C/110°F. If you do not have a special warming tray, use the two-tray procedure for warming. Place hot water in a large tray and float the toning tray on the hot water. Add additional hot water to the large tray as necessary. **DO NOT HEAT THE TONING SOLUTION IN A MICROWAVE OVEN - IT WILL RUIN THE TONER SOLUTION.**

Place the print to be toned in the solution and tone to the desired hue. When the desired tone has been reached (5 to 20 minutes), rinse the print in water; fix the print for 5 minutes; and finally wash the print for at least one hour.

When the toning session is complete you can return the working solution to its storage container.

REPLENISHMENT

Exact measurements cannot be given. The quantity to be added will depend on the number of prints toned, and the time of toning. In general, when toning to a warm brown, about 4 ml of solution B should be added to the working solution after each fifty 8-by-10 prints have been toned.



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