

PHOTOGRAPHERS' FORMULARY

PHOTOGRAPHERS' FORMULARY PAPER DEVELOPER 130

Developer 130 is a superb paper developer that produces a full scale of rich blacks. The developer has excellent tray and shelf life, high capacity, and is very suitable for batch processing. The prints obtained using Developer 130 are surpassed only by those obtained using the amidol developers such as Weston's Amidol (Catalog number 02-0010) and Amidol Paper Developer (Catalog number 02-0030). Developer 130, however, is far more pleasant to work with than are the amidol developers. All things considered, Developer 130 is one of the best paper developers ever formulated.

CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. Please read the chemical warnings on each package.

Only one chemical, used in mixing Developer 130, Metol needs special attention. Some individuals become sensitized (develop allergic symptoms or rashes) when using metol. If this should happen, discontinue use and consult a physician.

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

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.

MIXING THE STOCK SOLUTION

We recommend distilled water for mixing all stock solutions. We also recommend you wear a dust mask, splash goggles, rubber gloves and a rubber apron anytime you are mixing dry chemicals.

You will need a 1-liter (or 2 liter or 4 liter) storage container and a 1000 ml graduated cylinder for mixing the stock solution. You may find it convenient to use a proper-sized mixing bowl to mix the stock solution.

STOCK SOLUTION

Chemical	1 liter	2 liters	4 liters
Distilled Water (52° C/125° F)	750 ml	1500 ml	3000 ml
Metol	2.2 g	4.4 g	8.8 g
Sodium Sulfite	50 g	100 g	200 g
Hydroquinone	11 g	22 g	44 g
Sodium Carbonate, monohydrate	78 g	156 g	312 g
Potassium Bromide	5.5 g	11 g	22 g
Glycin	11 g	22 g	44 g
Cold water to make	1000 ml	2000 ml	4000 ml

Place the warm water in the storage container and add a pinch of sodium sulfite. (A small amount of sodium sulfite will minimize the initial oxidation of the metol. If more is added at this point, the metol will not dissolve.) Add the metol to the solution and stir until all of the metol is dissolved. It is important that all of the metol be dissolved before the other chemicals are added. Add the sodium sulfite, stirring until the solid dissolves. Add each chemical in the order given in the table above. Be sure each chemical is completely dissolved before adding the next one to the solution. Finally, add cold water to the solution to bring its final volume up to the kit size.

LIFE AND CAPACITY OF THE SOLUTION

The stock solution has a life of more than six months. The working solution has a tray life of 1-2 months.

Developer 130 is slightly colored when first mixed and the working solution turns quite dark with use. This is normal and does not indicate the developer is exhausted.

Developer 130 has a capacity of about 50 8x10's per liter of Working Solution.

USING THE DEVELOPER

For normal contrast - prepare the working solution by a 1:1 dilution of the stock solution with water. Develop the print for 45-60 seconds at 20° C/68° F.

For more contrast - develop the print for 45-60 seconds in undiluted stock solution at 20° C/68° F.

For softer results - dilute the stock solution 1:2 with water, and develop the print for 45-60 seconds at 20° C/68° F.