

PHOTOGRAPHERS' FORMULARY

PHENIDONE EXTENDED RANGE DEVELOPER (POTA)

POTA is a very soft working phenidone-based film developer. With slow films, POTA is capable of recording 15 to 20 stops of exposure range. When used on fine grain, high contrast copy films, POTA produces negatives with near normal contrast and extremely fine grain. Enlargements of 20-30 times are possible.

CHEMICAL SAFETY

All chemicals are dangerous and must be treated with respect. None of the chemicals used in POTA need a special safety discussion. However please read the warning label on each package.

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 THIRTY DAYS FOR A FULL REFUND.

MIXING THE WORKING SOLUTION

Mix the solution just prior to use as it has a short life. You will need a 1 liter bottle to mix the solution.

Chemical	Amount
Distilled Water (35° C/95° F)	500 ml
Sodium sulfite	30 g
Phenidone	1.5 g
Distilled cold water to make	1000 ml

Place the water in the container and add the sodium sulfite. Stir until the solid has dissolved. Add the phenidone and mix well. Add cold water to bring the final volume in the container up to 1000 ml. Finally, be sure to stir the solution to ensure it is mixed thoroughly before use.

LIFE OF THE SOLUTION

Use the developer as soon as it cools to 75° F. The mixed solution of developer has a shelf life of one hour.

USING THE DEVELOPER

Films will lose about one F-stop of emulsion speed. Therefore set your meter to 1/2 the rated ISO value of your film (for example, expose Plus X (ISO 125) at ISO 64.)

We recommend a development time of 12-16 minutes. Individual testing will be required to select the exact time for your materials and taste.

All solutions should be at 24° C/75° F.



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