

ALTERNATIVE WORKING SOLUTION DEVELOPMENT

BW-2 is a versatile developer. Any number of different dilutions may be used to give the results you may want for a special shot. The following table lists a few of the different dilutions possible:

SOLUTION "A"	SOLUTION "B"	WATER	EFFECT
225 ML <input type="checkbox"/>	75 ML <input type="checkbox"/>	200 ML	Gives high contrast negatives. Use when subject is very flat.
175 ML <input type="checkbox"/>	100 ML <input type="checkbox"/>	225 ML	For slightly higher contrast than normal.
100 ML <input type="checkbox"/>	100 ML <input type="checkbox"/>	300 ML	The standard dilution. Gives normal contrast.
70 ML <input type="checkbox"/>	150 ML <input type="checkbox"/>	280 ML	Compensating developer with loss of film speed (Approx. 1 stop).

FOR ANSWERS TO QUESTIONS ON THE USE OF BW-2 DEVELOPER, PLEASE CALL US AT 406-754-2891.

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FORMULARY BW-2 T-MAX FILM DEVELOPER

CATALOG NO.	TO DEVELOP
01-0500 <input type="checkbox"/>	20-25 ROLLS <input type="checkbox"/>
01-0505 <input type="checkbox"/>	40-50 ROLLS <input type="checkbox"/>
01-0508 <input type="checkbox"/>	80-100 ROLLS <input type="checkbox"/>
01-0510 <input type="checkbox"/>	160-200 ROLLS <input type="checkbox"/>

The T-MAX formula developed here at the Formulary has been given the designation of BW-2. It is a unique developer giving the film the sharpness that it was meant to have and contrast control that other developers can not give.

When the T-MAX film came out, we started looking for a formula for it. Several old classical formulas looked good with modifications. We found that BW-2 was giving as good as or better results than other developers tested. BW-2 will let you change the contrast by using a different balance of the 2 solutions.

CHEMICAL SAFETY

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

Solution "A" contains a toxic irritant. If this solution is spilled, wash area with large amounts of water. Then use soap and water.

Solution "B" contains an alkali. If this solution is spilled follow the directions for solution "A".

The user assumes all risks upon acceptance of 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.

LIFE OF THE SOLUTIONS

Solution "A" is stable for a year if stored in a tightly sealed bottle. If left uncapped the concentration will oxidize. If you have Freon, use it to push air from bottle.

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Solution "B" will keep indefinitely when stored in a tightly sealed bottle. Again, Freon will help the life of the solution.

CAPACITY AND MIXING THE WORKING SOLUTIONS:
USE DISTILLED WATER FOR BEST RESULTS.

The one-liter kit will develop up to 25 rolls, and the two-liter kit will develop up to 50 rolls depending upon the length of time the developer is in the working solution. In general only mix enough working solution for the number of rolls of film you are going to develop within a week, at the ratio of 10 rolls per liter of working solution.

This kit contains two bottles of stock solution - one marked "Solution A" and one marked "Solution B". To make the standard working solution mix the stock solution and water in the ratio of 1:1:3.

For example: to make 500 ml of working solution:

- add 100 ml of Solution A
- add 100 ml of Solution B
- add 300 ml of water at 68° F/20° C.

To insure sufficient developing agent is present in the tank, never use less than 500 ml. Developer will become thicker as more rolls are developed.

Sheet film capacity is 10-12 4X5's per liter.

When re-using BW-2, add 10% to your developing time for each roll or sheet of film processed - up to 10 rolls per liter of working solution.

PROCESSING PROCEDURE

For T-MAX 100 exposed at EI 100 or 200:

- Use at a temperature of 68° F/20° C
- Develop for 8 minutes, with 5 inversions per minute.
- Water wash stop for 1 minute. The use of acid stop bath may cause reticulation of the emulsion.
- Fix for 4 minutes in TF-4 Rapid Fix (our cat. no. 03-0141) with agitation for 30 seconds each minute. The magenta stain should be removed. Or you may fix for 6 minutes with 5 inversions once a minute. If another fixer is used, follow recommendations for that fixer.

- Rinse with water for 5-10 minutes. Add a 1/2 cap-full of Formaflo (cat. no. 03-0195) and work up a good suds. NOTE: when looking at the film on the reel it may show a pink tinge. Hang it up to dry and it should dry clear.
- You do not need to use a fix with hardener as T-MAX has a built-in hardener according to the manufacturer.

For T-MAX 400 exposed at EI 400 or 800:

Use the same directions as T-MAX 100 except decrease the developing time to 7 minutes at 68° F/20° C.

For T-MAX 3200 exposed at EI 3200:

Use the same directions as T-MAX 100 except increase the time to 11 minutes.

TO PUSH T-MAX 100 FILM: Use the same processing with the following exceptions:

- EI 200 at 75° F/24 C for 6 1/2 minutes.
- EI 400 at 75° F/24 C for 9 minutes (2-stop push).
- EI 800 at 75° F/28 C for 10 1/2 minutes (3 stop push).

TO PUSH T-MAX 400 FILM: Use the same processing with the following exceptions:

- EI 800 at 75° F/24 C for 6 minutes.
- EI 1600 at 75° F/24 C for 8 minutes (2 stop push).
- EI 3200 at 75° F/24 C for 9 1/2 minutes (3 stop push).

To PULL or PUSH T-MAX 3200 use exposures and times listed below:

EI	Development time at 68° F/20° C
800	7 1/2 minutes
1600	8 minutes
3200	11 minutes
6400	13 minutes
12,500	15 1/2 minutes