ANSCO 48M REPLENISHER

Add ¾ ounce of replenisher to Ansco 48M for each roll of 120 film (or equivalent) developed. Maintain original volume of developer, discarding if necessary some used developer. No increase in original developing time is necessary when replenisher is used in this manner.

	Metric		*Avoirdupois*	
Hot Water (125 F or 52 C)	750	cc.	24 ounces	3 quarts
Metol	6.3	grams	92 grains	¾ oz. 40 gr.
Sodium Sulfite, anhydrous	30	grams	1 ounce	4 ounces
Hydroquinone	10	grams	¼ oz. 35 gr.	1¼ oz. 40 gr.
Sodium Metaborate	40	grams	1¼ oz. 40 gr.	5¼ oz. 50 gr.
Water to make	1	liter	32 ounces	1 gallon

ANSCO 61 • M-H TRAY DEVELOPER

This developer is recommended for use with commercial film to produce negatives of normal contrast. It may also be used satisfactorily for roll, pack and sheet film for negatives of average brilliance.

	Metric		*Avoirdupois*	
Hot Water (125 F or 52 C)	750	cc.	24 ounces	3 quarts
Metol	1	gram	15 grains	60 grains
Sodium Sulfite, anhydrous	15	grams	½ ounce	2 ounces
Hydroquinone	2	grams	29 grains	¼ oz. 8 gr.
Sodium Carbonate, monohydrated	15	grams	½ ounce	2 ounces
Potassium Bromide	1	gram	15 grains	60 grains
Water to make	1	liter	32 ounces	1 gallon

Do not dilute for use. Normal developing time, 4 to 6 minutes at 68 F (20 C).

ANSCO 64 • RAPID M-H (TROPICAL) DEVELOPER

This is a clean-working developer of particular value for rapid development or development at high temperatures.

	Metric		*Avoirdupois*	
Hot Water (125 F or 52 C)	750	cc.	24 ounces	3 quarts
Metol	2.5	grams	36 grains	¼ oz. 35 gr.
Sodium Sulfite, anhydrous	25	grams	¾ oz. 40 gr.	3¼ oz. 50 gr.
Hydroquinone	6.5	grams	95 grains	¾ oz. 50 gr.
Sodium Carbonate, monohydrated	16	grams	½ oz. 15 gr.	2 oz. 60 gr.
Potassium Bromide	1	gram	15 grains	60 grains
Water to make	1	liter	32 ounces	1 gallon

Do not dilute for use.

Normal developing time—3 to 4 minutes at 68 F (20 C).

For development at temperatures higher than 68 F, see paragraph on time-temperature coefficients on page 21.

ANSCO 70 • HYDROQUINONE CAUSTIC DEVELOPER

This developer is recommended for Process film used in reproduction work.

Solution 1	*Metric*		*Avoirdupois*	
Hot Water (125 F or 52 C)	750	cc.	24 ounces	3 quarts
Hydroquinone	25	grams	¾ oz. 40 gr.	3¼ oz. 50 gr.
Potassium Metabisulfite	25	grams	¾ oz. 40 gr.	3¼ oz. 50 gr.
Potassium Bromide	25	grams	¾ oz. 40 gr.	3¼ oz. 50 gr.
Water to make	1	liter	32 ounces	1 gallon
Solution 2				
Cold Water	1	liter	32 ounces	1 gallon
*Sodium Hydroxide (Caustic Soda Flakes)	36	grams	1 oz. 90 gr.	4¾ oz. 30 gr.

Mix equal parts of Solutions 1 and 2 immediately before use.

Develop films not longer than 3 minutes at 68 F (20 C).

*May be substituted by:

Potassium Hydroxide	50	grams	1½ oz. 75 gr.	6¾ ounces

ANSCO 72 • GLYCIN DEVELOPER

This clean-working formula is recommended for use with commercial films in reproduction work when a comparatively low maximum density is desired. It is also suitable for development of roll, pack and sheet film providing a long scale of tonal gradation.

Stock Solution	*Metric*		*Avoirdupois*	
Hot Water (125 F or 52 C)	800	cc.	25 ounces	3 quarts
Sodium Sulfite, anhydrous	125	grams	4¼ ounces	1 lb. 1 oz.
Potassium Carbonate	250	grams	8½ ounces	2 lb. 2 oz.
Glycin	50	grams	1½ oz. 75 gr.	6¾ ounces
Water to make	1	liter	32 ounces	1 gallon

TANK DEVELOPMENT: Take one part stock solution, fifteen parts water and develop 20 to 25 minutes at 68 F (20 C). TRAY DEVELOPMENT: Take one part stock solution, four parts water and develop 5 to 10 minutes at 68 F (20 C).

ANSCO 79 • PARAFORMALDEHYDE DEVELOPER

This is a standard formula recommended for development of Reprolith and Reprolith Ortho Films.

	Metric		*Avoirdupois*
Water (Not over 90 F or 32 C)	2000	cc.	64 ounces
Sodium Sulfite, anhydrous	120	grams	4 ounces
Paraformaldehyde	30	grams	1 ounce
Potassium Metabisulfite	10.5	grams	¼ oz. 45 gr.
Boric Acid Crystals	30	grams	1 ounce
Hydroquinone	90	grams	3 ounces
Potassium Bromide	6	grams	88 grains
Water to make	4	liters	1 gallon

Dissolve chemicals in the order given and use solution full strength. Normal developing time 2 to 3 minutes at 68 to 70 F (20 to 21 C). For Reprolith Orthochromatic, develop 1½ to 3 minutes at same temperature.