

# 'TABLOID' BRAND

## PHOTOGRAPHIC DEVELOPERS

**To prepare solutions.** Full instructions are included with all 'Tabloid' Photographic Developers and these must be carefully followed. In all cases drop the products whole into the volume of water specified and crush them **immediately** by pressure with a stirring rod. Pound any remaining fragments to powder and stir until completely dissolved. The solutions are most conveniently prepared in a glass measure; vessels with thin glass walls are not recommended for this purpose.

'Tabloid' brand Wetting Agent may be added to any of these developers and is recommended to ensure even development and to prevent the formation of air-bells.

After development rinse negatives and prints in clean water and fix in an acid fixing bath.

**Developing times.** In the attached instructions recommended developing times are given for seven groups of films and plates. The grouping of most popular films and plates is given on page 6. Where times are recommended for tank development they refer to occasional agitation. The instructions provided with the tank should be followed carefully and if continuous agitation is used the times should be reduced by 10 to 20 per cent.

**Keeping properties.** 'Tabloid' photographic products must be kept dry. If they are stored in the original containers and the stoppers or screw-caps are firmly replaced they will keep in good condition for years. The working strength developer solutions will, however, deteriorate and for consistent results should not be stored for long.

The following 'Tabloid' brand photographic products are also available:—

'Tabloid' Potassium Ferricyanide.

'Tabloid' Potassium Bromide.

'Tabloid' Ammonium Persulphate.

'Tabloid' Chromium Intensifier.

'Tabloid' Wetting Agent.

Further information regarding the use of 'Tabloid' developers and other photographic chemicals is given in the Johnson Photographic Year Book and the Johnson Photocopoeia.

# 'TABLOID' BRAND 'RYTOL' DEVELOPER

'Tabloid' brand 'Rytol' Developer is a universal developer equally suited to the development of Films, Plates, Lantern Plates, Bromide and Contact Papers. It produces soft, well-graded negatives suitable for contact printing or enlargement.

## INSTRUCTIONS

### Contact Papers and Lantern Plates (black tones).

Dissolve one large 'Tabloid' product (accelerator) and one small product (reducer) in each 2½ ounces (70 ccs.) of water. Develop 30 to 45 seconds at 65°F.

For warm tones on lantern plates increase the exposure, dilute the developer and add Ammonium or Potassium Bromide (one grain per ounce or more as required).

**Bromide Papers.** Dissolve one pair of 'Tabloid' products in each 4 ounces (115 ccs.) of water. Develop at least 2 minutes at 65°F. When developing chloro-bromide papers add Potassium Bromide 2 grains to each 4 ounces.

### Development of Films and Plates.

**Dish Development.** One pair of products in each 4 ounces (115ccs.) of water :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
55° F. (13° C.)	6	7½	8½	10	11½	14	17½
60° F. (15° C.)	5	6	7	8½	9½	11	13
65° F. (18° C.)	4½	5	5½	6½	8	9½	11½
70° F. (21° C.)	3½	4½	4½	5½	6½	8	9½
75° F. (24° C.)	3	3½	4	4½	5½	6½	8

Tank Development (occasional agitation). One pair of products in each 8 ounces (225 ccs.) of water :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
55° F. (13° C.)	15	18½	21½	24½	30	36	41
60° F. (15° C.)	12½	15	18	20½	24	29	34
65° F. (18° C.)	10½	12½	15	17	20	24	29
70° F. (21° C.)	9	10½	12	14	17	20	24
75° F. (24° C.)	7½	9	10	11½	14	17	20

Tank Development (occasional agitation). One pair of products in each 10 ounces (285 ccs.) of water :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
55° F. (13° C.)	18	23	26	30	36	43	49
60° F. (15° C.)	15	18	22	25	30	36	42
65° F. (18° C.)	13	15	18	21	24	29	34
70° F. (21° C.)	11	13	15	17	20	24	28
75° F. (24° C.)	9	11	12	14	17	20	24

**Factorial Development.** Multiply the time of the first appearance of the image by one of the following factors : For soft negatives 10 ; normal negatives 12 ; vigorous negatives 15.

# 'TABLOID' FINE-GRAIN DEVELOPER

'Tabloid' brand Fine-Grain Developer will produce soft, well-graded negatives suitable for enlargement to about 10 diameters. The degree of enlargement possible also depends on the film used, the exposure and the developing time. No increase in exposure is necessary but this does not imply that the developer will compensate for under-exposure. For the best results accurate exposure is essential. The developer is not suitable for the development of prints.

## INSTRUCTIONS

'Tabloid' Fine-Grain Developer (normal). Measure out the required volume of warm water and dissolve one pair of 'Tabloid' products (1 large and one small product) in each 2 ounces (57 ccs.). Allow the solution to cool to about 65°F. before use.

### Tank Development (occasional agitation)

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	3½	4½	4½	5½	6½	8	9½
65° F. (18° C.)	3	3½	4	4½	5½	6½	8
70° F. (21° C.)	2½	2½	3½	3½	4½	5½	6½

'Tabloid' Fine-Grain Developer (dilute). For greater economy dissolve 1 pair of 'Tabloid' products in each 4 ounces (115 ccs.) of warm water. Allow the solution to cool to about 65°F. before use.

### Tank Development (occasional agitation)

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	7½	8½	9½	11	13	16	19
65° F. (18° C.)	6	7	8	9	11	13	16
70° F. (21° C.)	5	5½	6½	7½	9	11	13

This developer gives the best results when used at 65° to 70°F. and must never be used at temperatures lower than 60°F.

**Keeping.** For the finest possible work the developer should be used once only. If, however, the solution is stored in a full, well-stoppered bottle it may be used several times in succession. The developing time should be increased by about 10 per cent after each film and one pair of products should be allowed for each No. 20 or full-length 35 mm. film. The times recommended apply only to fresh developer.

When developing high-speed films it is recommended that a 20 per cent solution of Sodium Sulphite should be substituted for part of the water in which the 'Tabloid' products are dissolved. See under Ultra Fine-Grain Developer (page 4).

# ULTRA FINE-GRAIN DEVELOPER

'Tabloid' brand Fine-Grain Developer made up using a 20% solution of Sodium Sulphite gives finer grain than the ordinary Fine-Grain Developer, and is recommended for developing high speed films.

## INSTRUCTIONS

Measure out **half** the required volume of warm water and dissolve one pair of products (1 large and 1 small product) in each 2 ounces (57 ccs.). Allow the solution to cool to about 65°F. and add an equal volume of 20 per cent Sodium Sulphite solution. To make 20 per cent Sodium Sulphite solution dissolve 4 ounces of crystal Sodium Sulphite or 2 ounces of the dry powder in 6 or 7 ounces of warm water and make the total volume up to 10 ounces.

### Tank Development (occasional agitation)

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	9	10	11½	13	15½	19	23
65° F. (18° C.)	7	8½	9½	11	13	15½	19
70° F. (21° C.)	6	6½	8	9	11	13	15½

For notes on recommended working temperatures, keeping properties, etc., see under 'Tabloid' Fine-Grain Developer.

# 'TABLOID' AMIDOL DEVELOPER

'Tabloid' brand Amidol Developer is particularly recommended for the development of Bromide Papers. It is also suitable for the development of Films, Plates, Lantern Plates and Contact Paper.

## INSTRUCTIONS

**For Films, Plates, Lantern Plates, Bromide and Contact Papers.** Measure out the required volume of water and dissolve, first, one of the larger 'Tabloid' products (Accelerator) for each ounce (28 ccs.). Then dissolve an equal number of the smaller products (Amidol 2 grains). For soft grey tones on bromide papers dissolve one pair of products in each 2 ounces (57 ccs.) of water. Sodium Citrate is recommended if a restrainer is required.

**Dish Development of Films and Plates** (1 pair of products to 1 ounce of water) :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	3	3½	4	4½	5½	7	8
65° F. (18° C.)	2½	3	3½	4	4½	5½	6½
70° F. (21° C.)	2	2½	2½	3½	4	4½	5½

**Factorial Development.** Multiply the time of the first appearance of the image by one of the following factors : For soft negatives 7; for normal negatives 10; for vigorous negatives 12.

Amidol developers should be freshly prepared just before use and, since they deteriorate rather rapidly, should not be stored. Amidol is not recommended for tank development.

# 'TABLOID' M.Q. DEVELOPER

'Tabloid' brand M.Q. Developer is an ideal all-round developer for Films, Plates, Lantern Plates, Bromide and Contact Papers.

## INSTRUCTIONS

**Contact Papers.** Dissolve, first, one small 'Tabloid' product (reducer) and then one large product (accelerator) in each ounce (28 ccs.) of water.

**Lantern Plates.** For black tones dissolve, first, one small product (reducer) then one large product (accelerator) and 1 grain Ammonium or Potassium Bromide in each 1½ ounces (45 ccs.) of water.

For warm tones increase the exposure, dilute the developer and add Ammonium or Potassium Bromide (one grain per ounce or more as required).

**Bromide Papers.** Dissolve, first, one small product (reducer) and then one large product (accelerator) in each 2 ounces (57 ccs.) of water.

## Development of Films and Plates.

**Dish Development.** One pair of products in each 2 ounces (57 ccs.) of water :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	3	3½	4½	4½	5½	7	8
65° F. (18° C.)	2½	3	3½	4	4½	5½	6½
70° F. (21° C.)	2	2½	3	3½	4	4½	5½
75° F. (24° C.)	1½	2	2½	2½	3½	4	4½

**Tank Development** (occasional agitation). One pair of products in each 4 ounces (115 ccs.) of water :

Temperature	Developing Groups						
	1	2	3	4	5	6	7
60° F. (15° C.)	4½	5	6	6½	8	9½	11
65° F. (18° C.)	3½	4	5	5½	6½	8	9
70° F. (21° C.)	2½	3½	4½	5	5½	6½	7½
75° F. (24° C.)	2½	2½	3½	4	5	5½	6½

When **Factorial Development** is employed multiply the time of the first appearance of the image by one of the following factors : For soft negatives 10; for normal negatives 12; for vigorous negatives 15.

This developer gives the best results when used at 65° to 70°F. and must never be used at temperatures lower than 60°F.

## FILM GROUPS

P = Plates Plaques Platten Lastre Placas Platar. CF = Cut-film Films rigides Planfilme Planfilm Pelicula Rigida Bladfilm. RF = Roll Film Films en bobine Rollfilme Pelicula (en rollos) Rullfilm.

- AGFA—Isopan 17 / 10 RF (4), Isopan I.S.S. RF (5), Isopan F.35 mm. (3).  
AS DE TREFLE—Super Aschrom RF (4), As Panchro RF (5).  
BAUCHET—Hyperchromanique RF (5), Hyperpan RF (5).  
CORONET—888 RF (4).  
CRITERION—Commercial Pan P (4), Iso 700 P (4), Ordinary P (1).  
CRUMIERE—Super Aviachrom RF (4), Aviapan RF (7).  
DUFAY—Ortho RF (4), Pan RF (4). Super 100 RF (5)  
FERRANIA—Panchromatica F.2. 35 mm. (1), Super Pancro 32° RF (5), Super Pancro 17 / 10 RF (4), Super Pancro P.3. 35 mm. (2). Super Pancro S.2. 35 mm. (5), Ultrachromatica RF (4).  
GEVAERT—Gevachrome P, CF, RF (5). Gevapan 27 CF, RF & 35 mm. (3), Gevapan 30 P, CF & RF (5), Gevapan 33 P, CF, RF & 35 mm. (6).  
GUILLEMINOT—Pancro 55 RF (6). Super 44 RF (5).  
ILFORD—Chromatic P (2), Commercial Ortho CF (2), Fine Grain Ordinary P (1), F.P.3. CF, RF & 35 mm. (4), H.P. 3. CF, RF & 35 mm. (6), H.P.3. P (5), Hyperchromatic CF (6), Ordinary P (1), Pan F 35 mm. (2), Press Ortho Series 2 P (4), Selochrome P (3), Selochrome CF (4), Selochrome RF (5), Soft Gradation Pan P (6), Soft Ordinary P (1), Special Rapid P (2), Special Rapid Pan P (2), Zenith 700 P (6).  
KODAK—Commercial Ortho CF (5), 0250 P (4), 0800 P (5), Ortho X CF (6), P 300 P (4), P 500 P (4) P 1200 P (6), P 1500 P (3), Panatomic X CF (3), Panatomic X RF & 35 mm. (4), Plus X RF & 35 mm. (5), Super XX CF & RF (5), Super XX 35 mm. (7), Verichrome RF (5).  
LUMIERE—Altipan RF (6). Lumipan RF & 35 mm. (6), Super Lumichrome RF (5).  
PHOTOCAM—Photochrome RF (5).  
PERUTZ—Peromnia RF (4), Perpantic RF (4).  
S.P.O.—Spochrom RF (5).  
STANDARD—Ortho RF (5), Pan RF (5).  
STEDMAN—Filmot RF (5).  
VERNAK—Ortho RF (5), Pan RF (4).

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