

# KODAK VELOX PAPER

MADE IN ENGLAND BY KODAK LIMITED LONDON

This is a developing paper specially made for the contact printing of amateurs' negatives. The image colour can be either blue-black or neutral black according to the developer used, and is constant over an ample range of development times.

**Safelight.** Handle by the light of a 'Kodak' safelight, 'Wratten' Series 00 (yellow), used with a 25-watt bulb.

**Exposure.** Any convenient artificial light, electric or gas, may be used. As strength of light, distance of light from paper, density of negative, and speed of paper, etc., are unknown factors, first make a test exposure. For an average negative at 8 inches from a 40-watt bulb try 2 to 8 seconds.

**Development.** For blue-black tones with short development time use 'Velox' Developer or a developer made up according to Kodak Formula D.158. Dilute one part of stock solution with one part of water and develop for 30-60 seconds.

For neutral-black tones with medium development time dilute 1 part of 'Kodak' Special Developer D.163 stock solution with 1 part of water. The development time will normally be within the range 40-80 seconds, but a considerably longer development may be given if required.

For neutral-black tones with longer development time dilute one part of 'Kodak' Special Developer D.163 stock solution with 3 parts of water and develop for 1 to 2 minutes at 68°F. (20°C.). At other temperatures develop according to the following table.

For cold-black tones with long development time use 'Kodak' Special Developer D.163 to which has been added K.A.F. Solution (or a solution made up from 'Kodak' Anti-Fog Powder) in the proportion of  $\frac{1}{4}$  to  $\frac{1}{2}$  oz. of K.A.F. solution to every 10 oz. of stock strength developer. Dilute one part of stock solution with one part of water and develop for 1 to 2 minutes at 68°F. (20°C.).

Temperature	Development Time (seconds)		
65°F.	35-70	50-100	70-135
68°F.	30-60	40-80	60-120
70°F.	25-50	30-65	50-105
75°F.	20-40	25-60	40-75
80°F.	12-25	15-30	25-50
85°F.	10-20	12-25	20-40
90°F.	8-15	10-20	15-30

Plunge the exposed sheet of paper beneath the surface of the developer so that the entire sensitive surface is covered in one sweep. Development times may be extended beyond the recommended ranges if it is necessary to compensate for exposure errors.

**KODAK FORMULA D 158      Stock Solution**

Metric		Avoirdupois
3.2 gm	'Elon'	110 gr
100 gm	Sodium sulphite, crystals	8 oz
(50 gm)	(or anhydrous)	(4 oz)
13.3 gm	Hydroquinone	1 oz 40 gr
186 gm	Sodium carbonate, crystals	14 oz 375 gr
(69 gm)	(or anhydrous)	(5 oz 220 gr)
0.9 gm	Potassium bromide	32 gr
(9 cc)	(or 10% solution)	(350 min)
1000 cc	Water to make	80 oz

Dissolve the chemicals in the order given.

**KODAK FORMULA D 163      Stock Solution**

Metric		Avoirdupois
2.2 gm	'Elon'	80 gr
150 gm	Sodium sulphite, crystals	12 oz
(75 gm)	(or anhydrous)	(6 oz)
17 gm	Hydroquinone	1 oz 160 gr
175 gm	Sodium carbonate, crystals	14 oz
(65 gm)	(or anhydrous)	(5 oz 80 gr)
2.8 gm	Potassium bromide	100 gr
(28 cc)	(or 10% solution)	(2 oz 130 min)
1000 cc	Water to make	80 oz

'Velox' Developer and 'Kodak' Special Developer D.163 are available in powder or solution form.

**Stop Bath.** Rinse briefly but thoroughly, in an acid stop bath (2% glacial acetic acid), or alternatively in clean cold water.

**Fixing.** Fix for not less than 5 minutes in a fresh solution of either 'Kodak' Acid Fixing Salt with Hardener or 'Kodak' Acid Fixer Powder, agitating the paper at intervals. Alternatively prepare a fixing bath according to Kodak Formula F.54.

**Washing.** Wash for 30 minutes in running water (or for 5 minutes in each of 6 changes of water). Keep prints separated and moving.

**Drying and Glazing.** Dry prints face downwards on absorbent material (e.g. muslin or cheese-cloth). 'Velox' WSG (glossy) may be glazed by any of the usual hot or cold methods.

*Kodak, Velox, Wratten and Elon are trade marks*