

ILFORD

ID-11 Fine Grain Developer

For Films and Plates

ID-11 is a fine grain developer of the M.Q. borax type—i.e., it has low alkalinity and a high sulphite content—and produces negatives having grain as fine as it is possible to obtain without loss of emulsion speed.

MAKING UP

Always make up the developer in one unit as packed ; do not attempt to prepare smaller quantities by taking fractional parts of the powders.

20 oz. size. Cut along one sealed edge of the smaller plastic bag and stir the contents into about 15 oz. (425 c.c.) of warm water. When all of the chemicals have dissolved, add slowly the contents of the larger bag, stirring until dissolved. Finally, add cold water to make up to 20 oz. (570 c.c.).

80 oz. size. Dissolve by stirring the contents of the smaller packet in about 60 oz. (1700 c.c.) of warm water. Then, add gradually the contents of the larger packet, stirring until dissolved. Finally, add cold water to make up to 80 oz. (2.25 litres).

Larger sizes. Dissolve by stirring the contents of the small plastic bag and the smaller paper bag in about three-quarters of the total volume (specified on the label) of warm water. Then, add gradually the contents of the larger paper bag, stirring until dissolved. Finally, add cold water to make up to the full specified volume.

WORKING STRENGTH

ID-11 should be used at full strength in dish or tank.

DEVELOPMENT TIMES

Recommended times for the development of Ilford films and plates in ID-11 are given in the table overleaf. These times are recommended for general use ; for portrait negatives they should be reduced by about one-third.

Ilford material	Development time at 68°F (20°C)	
	Dish (Continuous agitation)	Tank (Intermittent agitation)
Roll films	mins.	mins.
Selochrome Pan	9½	12
FP3	6½	8
HP3	8	10
HPS	11	14
35 mm. miniature films		
Pan F	—	6½
FP3	—	8
HP3	—	10
HPS	—	14
Flat films		
N5.30 Fine Grain Ordinary Series 2	3¼	4
G8.30 Commercial Ortho	9½	12
Hyperchromatic	11	14
FP3	6½	8
HP3	7	9
HPS	11	14
Plates		
N.30 Ordinary	3¼	4
N.25 Soft Ordinary	4¾	6
Special Rapid	4¾	6
G.30 Chromatic	3½	4¾
Selochrome	5	6½
R.25 FP Special	7	9
R.20 Special Rapid Panchromatic	4¾	6
R.10 Soft Gradation Panchromatic	8	10
FP4	7	9
HP3	7	9
HPS*	11	14

*When fine grain development is required, HPS Plates should preferably be developed in Microphen. If ID-11 is used, exposures must be doubled.

USEFUL LIFE (without replenishment)

If stored in a well-stoppered bottle, ID-11 will keep well and may be used repeatedly. Four or five 36-exposure 35 mm. miniature films or eight-exposure 2¼" × 3¼" roll films may be developed in 20 oz. of developer. To maintain uniform contrast the development time should be increased by 10% for each successive roll of film developed.

REPLENISHMENT

When used in a large tank, the working life of ID-11 Developer can be greatly extended by use of Ilford Replenisher for ID-11 Fine Grain Developer.

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