

ILFORD FILM/CHEMICAL PROCESSING CHART

ALL FILM CHEMICALS & DILUTIONS AT 68°F (unless otherwise noted)		PAN F PLUS				FP4 PLUS				HP5 PLUS					100 DELTA PROFESSIONAL					400 DELTA PROFESSIONAL					SFX 200			UNIVERSAL 400										
		ALL FORMATS				35MM		ROLL & SHEET		ALL FORMATS					35MM		ROLL & SHEET			ALL FORMATS			ALL FORMATS															
		25	50	100	200	50	125	200	400	50	125	250	400	200	400	800	1600	3200	25	50	100	200	400	100	200	400	800	1600	200	400	800	1600	200	400	800	400	640	1000
ILFORD ID -11	STOCK	6½	6½			5	6	8		5	6	8			7½	10½	14			7	8½	10½			6	7	9	12½	6½	7½	10	14	10	14	18	9		15
ILFORD ID -11	1+1	8½	8½			7	8	12		8	9	13			13	16½				10	11	13			9	10½	12½		10	11½	14		17			15½		26
ILFORD ID -11	1+3	14	15			15	18			13	15				20					15	20				18			20										
ILFORD ILFOTEC HC	1+15							7			5					5	7½	12½								5	8			5½	9	5	7	10½	5		8	
ILFORD ILFOTEC HC	1+31						6	8½		6	8	9			6½	9½	14			5	6	8			6	7½	10	14	6½	8½	11	15½	9	13	19	9		14
ILFORD ILFOTEC HC	1+47		5½			6	8	12		8	12				9					5½	7½	10			13			14½										
ILFORD ILFOSOL-S	1+9							5			6½	7½			7	8½	14				6				7	9	13	7½	10	14½		9½	11½	19	10			
ILFORD ILFOSOL-S	1+14		6			5	6	7½		7½	9½				9½	14				6½	10				11½	14		12½	15½			13	19					
ILFORD MICROPHEN	STOCK			8	12		5½	6½	11		8	9	15½		6½	8	11	16			6½	8	10			7	9	12½	7½	10	14	8½	10½	14½		10	14	
ILFORD MICROPHEN	1+1	6	6				7	9	16		10	14			12	15				10	14				10½	13	18	11½	14½	20	15½	19						
ILFORD MICROPHEN	1+3	11	11				10	13			14	18			23					14	20				17			18½										
ILFORD PERCEPTOL	STOCK	9	14			7½	9			9	12			11	11				9	12	15			8½	10	13		11	14½			14½				13		
ILFORD PERCEPTOL	1+1	10½	15			10½	14			13	15				15					13	17				14	18		15½	20			20						
ILFORD PERCEPTOL	1+3	15	17			14	18			17	21				25					16	22				22			24										
ACUFINE	STOCK							10			6				6½	9½					5½				5	7	10	5½	7½	11								
RODINAL	1+25		6			5	6	9			9	13			6	8				7	9				7	9	12½	7½	10	14								
RODINAL	1+50		11			6	8½	13			15	20			11					10	14				12	16½		13	18									
D-76	STOCK	6½	6½			5	5½	7		6	8	9			7½	9½	12½			7	9	11			6	7	9	12½	6½	7½	10	14	10½	12½	16½	9		20
D-76	1+1	10½	10½			7½	8½	11		9	11	15			11	13				9½	12	14			9	10½	12½		10	11½	14		14					
D-76	1+3	15½	15½			12	14	18		14	16	20			22					14	22				18			20										
HC 110A	1+15							7			6					5½	9½									5	8			5½	9							
HC 110B	1+31						5	8		6	9	12			5	7½	11			5	6	8			6	7½	10	14	6½	8½	11	15½	9	13	19	9		14
MICRODOL-X	STOCK	12	15			7½	10½			10	15				11					12	15				10	13		11	14½									
MICRODOL-X	1+3	15	18			14	17			17	23				25					16	22				22			24										
T-MAX	1+4						5½	6½	8		8	9			6½	8	9½	11½			6	7	8			7½	10	14		8½	11	15½	8½	10½	12½	8	10	14
T-MAX RS (at 75°F)	STOCK						5				7½					5	7	10½			5	6	8				6	8		6½	7½	10	6	7	9		7	10

DEVELOPMENT TIME

Follow the recommended times in the chart for the film/developer combination of your choice. CAUTION: These times are intended as a **guide only**. Times shorter than five minutes risk uneven development and are not recommended.

AGITATION

The recommended agitation for spiral tank processing with ILFORD chemicals is to invert the tank four times during the first 10 seconds and again for 10 seconds (four inversions) at the start of every further minute. Use this method of agitation for both developing and fixing. At the end of each agitation sequence, tap the tank firmly to dislodge any air bubbles. For Rotary Drum processing, use manufacturer's instructions.

STOP BATH

Use plain water or ILFORD IN-1 STOP BATH diluted 1+31, for 15-30 seconds with constant agitation.

FIXER

Fix ILFORD films in ILFORD UNIVERSAL RAPID FIXER diluted 1+3 for 2-4 Minutes. 100 and 400 DELTA PROFESSIONAL films require a fixing time of 3-5 minutes.

WASHING

Wash all films for 10 minutes in running water. Hang to dry.

TRADEMARKS

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