

DEVELOPMENT TIMES

The table gives development times for both manual and machine processing 400 DELTA PROFESSIONAL. These times will produce negatives of average contrast suitable for printing in all enlargers. The development times are intended as a guide and may be altered if a different result is needed.

For manual processing in spiral tanks and deep tanks, the development times are based on intermittent agitation. Where continuous agitation is used for manual processing (as in a dish or with some types of developing tank), reduce these times by up to 15%. For use in rotary processors without a pre-rinse, reduce the spiral tank development times by up to 15%. A pre-rinse is not recommended as it can lead to uneven processing.

Note Development times may need adjusting to suit individual processing systems and working practices. If an established system is producing good results, adjust the recommended development times until the desired contrast level is obtained. Development times in other manufacturers' developers are included for your convenience, and are only a general guide. Other manufacturers can and do change their product

specifications from time to time, and the development times may change as a result.

	Dilution	35mm film				Rollfilm				Sheet film			
		Meter setting EI 200/24	EI 400/27	EI 800/30	EI 1600/3	Meter setting EI 200/24	EI 400/27	EI 800/30	EI 1600/33	Meter setting EI 200/24	EI 400/27	EI 800/30	EI 1600/33
Spiral tank, deep tank, dip and dunk machines (min/20°C)													
ILFORD developer (recommended dilution in bold)													
ID-11	stock	6	7	9	12½	6½	7½	10	14	6½	7½	10	14
	1+1	9	10½	12½	-	10	11½	14	-	10	11½	14	-
	1+3	-	18	-	-	-	20	-	-	-	20	-	-
MICROPHEN	stock	-	7	9	12½	-	7½	10	14	-	7½	10	14
	1+1	-	10½	13	18	-	11½	14½	20	-	11½	14½	20
	1+3	-	17	-	-	-	18½	-	-	-	18½	-	-
PERCEPTOL	stock	10	13	-	-	11	14½	-	-	11	14½	-	-
	1+1	14	18	-	-	15½	20	-	-	15½	20	-	-
	1+3	-	22	-	-	-	24	-	-	-	24	-	-
ILFOSOL S	1+9	7	9	13	-	7½	10	14½	-	7½	10	14½	-
	1+14	11½	14	-	-	12½	15½	-	-	12½	15½	-	-
ILFOTEC HC	1+15	-	3½	5	8	-	4	5½	9	-	4	5½	9
	1+31	6	7½	10	14	6½	8½	11	15½	6½	8½	11	15½
ILFOTEC LC29	1+9	-	3½	5	8	-	4	5½	9	-	4	5½	9
	1+19	6	7½	10	14	6½	8½	11	15½	6½	8½	11	15½
1+29	-	13	-	-	-	14½	-	-	-	14½	-	-	
Non-ILFORD developer													
Acufine Acufine	stock	-	5	7	10	-	5½	7½	11	-	5½	7½	11
Agfa Refinal	stock	-	5	7	-	-	5½	7½	-	-	5½	7½	-
Agfa Rodinal	1+25	7	9	12½	-	7½	10	14	-	7½	10	14	-
	1+50	12	16½	-	-	13	18	-	-	13	18	-	-
Fuji Super Prodal	stock	-	5	7	-	-	5½	7½	-	-	5½	7½	-
	1+1	-	8	10½	-	-	9	11½	-	-	9	11½	-
Kodak D-76	stock	6	7	9	12½	6½	7½	10	14	6½	7½	10	14
	1+1	9	10½	12½	-	10	11½	14	-	10	11½	14	-
	1+3	-	18	-	-	-	20	-	-	-	20	-	-
Kodak HC-110	A	-	3½	5	8	-	4	5½	9	-	4	5½	9
	B	6	7½	10	14	6½	8½	11	15½	6½	8½	11	15½
Kodak Microdol-X	stock	10	13	-	-	11	14½	-	-	11	14½	-	-
	1+3	-	22	-	-	-	24	-	-	-	24	-	-
Kodak T-Max	1+4	-	7½	10	14	-	8½	11	15½	-	8½	11	15½
Paterson Acutol	1+10	8	10	15	-	9	11	16½	-	9	11	16½	-
Tetenal Ultrafin	1+10	-	9	13½	-	-	10	15	-	-	10	15	-
	1+20	-	13	-	-	-	14½	-	-	-	14½	-	-
Tetenal Ultrafin Plus	1+4	-	7½	10	-	-	8½	11	-	-	8½	11	-
Tetenal Ultrafin SF	stock	-	5	7	-	-	5½	7½	-	-	5½	7½	-
Dip and dunk machines (min/24°C)													
ILFOTEC DD	1+4	5½	6	7	11	6	6½	7½	12	6	6½	7½	12
Kodak T-Max RS	stock	-	4½	6	8	-	6½	7½	10	-	6½	7½	10
ILFOLAB FP40, roller transport and short leader machines (sec/26°C)													
ILFOTEC RT RAPID	stock	-	75	84	115	-	84	95	127	-	84	95	127
Kodak Duraflo RT	stock	-	75	84	115	-	84	95	127	-	84	95	127