

CineStill BwXX Development Times

CineStill BwXX is a variable speed, classic black & white film emulsion, with an EI of 250 under daylight and 200 under tungsten lighting. Recommended development in D96 developer or Df96 Monobath, but is compatible with D-76, HC110 and all other black and white film developers.

Processing times may differ from the ones shown in the tables because of processing variables such as solution pouring speed, degree of solution agitation, amount of solution contamination, etc. The exact exposure index depends on the prevailing shooting and processing conditions. Metering methods, shooting conditions, planned artistic effects and deliberate processing changes are to be taken into account when rating exposure index.

Use the listed temperatures and times as a starting point to determine the specifications necessary to produce quality negatives for your workflow.

DEVELOPER	DILLUTION	ISO	TIME	TEMP	NOTES
CineStill Df96 Monobath	Stock*	100-800*	3:00-6:00*	65-90°F / 18-32°C*	*See full instructions for simplified B&W processing at any room temperature
CineStill D96	stock	200	6:00	68°F/20°C	+20 sec per roll previously processed
	stock	250	7:00	70°F/21°C	+20 sec per roll previously processed
	stock	400	8:00	68°F/20°C	+25 sec per roll previously processed
	stock	800	10:30	68°F/20°C	+30 sec per roll previously processed
	stock	1600	25:00:00	68°F/20°C	
KODAK D-76	stock	64	3:00	72°F/22°C	
	stock	100	4:15	68°F/20°C	
	1+2	100	9:00	68°F/20°C	
	1+3	100	13:00	64°F/18°C	
	1+2	200	11:00	68°F/20°C	
	stock	250	7:00	68°F/20°C	
	stock	250	6:00	70°F/21°C	
	1+1	250	10:00	68°F/20°C	
	1+2	250	12:00	72°F/22°C	
	1+3	250	20:00	72°F/22°C	
	stock	400	9:00	68°F/20°C	
Diafine	stock	640	3+3	68°F/20°C	
	stock	1600	4+4	68°F/20°C	
Eco Pro	stock	250	7:00	68°F/20°C	
	1+1	250	10:00	68°F/20°C	
KODAK HC-110	B (1+31)	64	3:00	72°F/22°C	
	B (1+31)	100	4:00	68°F/20°C	
	B (1+31)	200	5:00	68°F/20°C	
	E (1+47)	200	8:00	68°F/20°C	
	B (1+31)	250	6:00	68°F/20°C	
	B (1+31)	400	6:30	68°F/20°C	
	E (1+47)	400	10:00	68°F/20°C	
	H (1+63)	400	14:00	68°F/20°C	
	B (1+31)	1600	20:00	68°F/20°C	
ILFORD ID-11	stock	64	3:00	72°F/22°C	
	stock	100	4:15	68°F/20°C	
	1+2	100	9:00	68°F/20°C	
	1+3	100	13:00	64°F/18°C	
	1+2	200	11:00	68°F/20°C	
	stock	250	7:00	68°F/20°C	
	1+1	250	10:00	68°F/20°C	
	1+2	250	12:00	72°F/22°C	
	1+3	250	16:00	72°F/22°C	
	stock	400	9:00	68°F/20°C	
ILFORD Ilfosol 3	1+4	250	7:00	68°F/20°C	
	1+9	400	15:00	68°F/20°C	
	1+9	600	17:00	68°F/20°C	
Ilfotec DD-X	1+9	200	12:00	68°F/20°C	
	1+4	250	7:00	68°F/20°C	
	1+4	3200	20:00	68°F/20°C	
Ilfotec HC	1+49	200	7:00	68°F/20°C	
Ilfotec LC29	1+19	250	6:20	68°F/20°C	
	1+29	250	8:00	68°F/20°C	
ILFORD Microphen	1+2	250	8:00	68°F/20°C	
	stock	320	6:30	68°F/20°C	
	stock	400	8:00	68°F/20°C	
	stock	800	10:00	68°F/20°C	
TETENAL Paranol S	1+50	250	12:30	68°F/20°C	
ILFORD Perceptol	1+2	200	13:00	68°F/20°C	
Rodinal	1+100	25	3:00	68°F/20°C	
	1+20	200	5:00	68°F/20°C	
	1+60	200	7:00	68°F/20°C	
	1+300	200	4:00	68°F/20°C	Stand development: agitate for first minute only, then allow to stand undisturbed
	1+25	250	5:45	68°F/20°C	
	1+50	250	9:00	68°F/20°C	
	1+50	400	11:00	68°F/20°C	
	1+100	400	6:00	68°F/20°C	Semi-stand development: continuous agitation 30-60 secs, then 1-3 times during remainder of development
	1+50	800	18:00	64°F/18°C	
	1+50	800	16:00	68°F/20°C	
	1+25	1000	9:15	68°F/20°C	
	1+20	1600	10:00	68°F/20°C	
KODAK TMax Dev	1+4	250	6:00	68°F/20°C	
	1+4	400	7:00	68°F/20°C	
	1+9	400	10:30	68°F/20°C	
Tetenal Ultrafin	1+20	200	12:00	68°F/20°C	
KODAK Xtol	stock	250	7:00	68°F/20°C	
	1+1	250	10:00	68°F/20°C	
	1+2	250	9:30	75°F/24°C	