

Film Developing Chart

All temperatures are 68° F unless otherwise noted. Temperature accuracy is critical.

Films Developers	Kodak Tri-X (ASA 400)	Kodak Tri-X (shot at 1600)	Kodak TMax (ASA 100/400)	Kodak TMax ASA 3200	Kodak TMax ASA 6400	Kodak Infrared ASA 400	Kodak Infrared ASA 1000	Kodak Technical Pan
Kodak D-76	1:1 Dilution 9 min.		1:1 Dilution 11.5 min. vigorous agitation				No dilution 12 min.	
Kodak TMax			1:4 Dilution 75° 6.25 min. vigorous agitation	1:4 Dilution • 75° Presoak (water) 3.5 min Develop 9 min.*	1:4 Dilution • 75° Presoak (water) 5 min. Develop 12 min.*			
Acufine				Straight • 70° 7.5 min.				
Kodak HC-110	1:7 Dilution 8.5 min.							1:7 Dilution 6.25 min.
Edwal FG-7	1:15 Dilution 11 min.	1:7 Dilution 80° 14-17 min.				1:15 Dilution w/ 1 oz. Sodium Sulfite 6 min. • 70°		

CHEMICALS REQUIRED:

Developer - see above

Water - same temperature

Fixer - 16 oz.

DEVELOP:

Use the chart above to determine film/developer/time and temperature combination. Start the timer as you start pouring the developer into the tank. Agitate the first 30 seconds and then for 5 seconds every 30 seconds for the rest of the time. *Agitate TMax 3200 or 6400 ASA (in TMax developer) in a gentle circular motion, rather than inverting the tank.

RINSE:

Pour the water into the tank for 1 minute. Agitate the first 15 seconds.

FIX:

Fixing time is twice the clearing time of the film leader plus 10 seconds. Start the timer as you start pouring the fixer into the tank. Agitate the same way as you did the developer. Ten seconds before the time is up, start pouring the fixer **back into the graduate**. The fixer can be reused.

RINSE • HYPO CLEAR • WASH • PHOTO FLO:

Rinse film for 30 seconds and drain. Agitate film in Hypo Clear for 2 minutes. Wash film under fresh, running water for 5 minutes. Dip film into clean Photo-Flo for 15 seconds and then dry. Wash all graduates, tank lids and counter tops thoroughly and then dry them.