

# Tanol Speed

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## Developing Times Chart

Roll film 120 and 35mm 135/36 in common spiral tanks

Dilution 1+1+100

Agitation: Inverse tank continuously the first 30 seconds, continue then with two times every 30 seconds. Agitation must be increased when high dilutions are used!

2/15 means 2 inversions every 15 seconds, or 2/30 2 inversions every 30 seconds.

The least amount of developer (A+B) per film is 2,5+2,5ml.

It is recommended to use distilled water. Using tap water may produce slight differences at film speed.

Roll 120 1+1+100 (5+5+500) – 1+1+75 (6+6+450) - 1+1+60 (8+8+480)

The use of a dropper etc. is recommended for handling small amounts of concentrates. Never use the droppers for different solutions before thoroughly washing. The solution should first turn into a reddish-yellow when mixed with water. After being stirred well it should get almost colourless and be used within next 10-15 minutes. A 0,5-1% acid stop bath is recommended to stop the development. Fixing: According to producers directions. Washing: 6-10minutes  
PH value lies around 10.25. Recommended film speed should be maintained for the first trials.

On behalf of better shadow detail the value for Zone I differs (0.12logD or more) from the ISO-Norm. Even at adjustment to higher film speed ( right side of table ) target values for both shades and highlights are obtained.

### Normal-dilution 1+1+100 (5+5+500ml)

### higher film speed

due to differing dilutions, times, agitation

Film	ISO	24°C	20°C	Inv.	1+1	ISO	°C/°F		Time	Inv.	base&fog
		75°F	64°F								
Agfa APX100	100/21°	10:45	16:00	2	+100	125/22°	24/75	12:15	2	low	
Agfa APX400	250/25°	12:00	17:30	2	+130	320/26°	24/75	18:00	6	high	
ADOX CHS / 25 Efke 25	20/14°	7:30	11:00	1	+130	25/15°	24/75	12:00	4	low	
Efke R50 und KB50	50/18°	9:00	13:30	2						low	
ADOX R50					+70	50/18°	20/64	9:30	4	low	
ADOX CHM 125 pro	100/21°	7:30	11:00	2	+100	250/25°	24/75	13:00	2	low	
ADOX CHM 400 pro	250/25°	10:30	15:30	2	+100	400/27°	24/75	15:00	3	low	
Classic Pan 200	160/23°	15:30		2			24/75			high	
Forte Pan 200	160/23°	15:30		2			24/75			high	
Fuji Acros	80/20°	9:30	14:00	2	+130	100/21°	24/75	14:00	4	very low	
Fuji Neopan 400	200/24°	12:00	17:45	2	+130	250/25°	24/75	18:00	4	very high	
Ilford PanF	32/16°		7:30	2	+100	80/20°	24/75	8:30	3	very low	
Ilford FP4	125/22°	9:30	14:00	2	+100	200/24°	24/75	13:00	2	low	
Ilford Delta 100	80/20°	7:00	10:30	2	+130	125/22°	24/75	10:00	5	sehr slight	
Ilford Delta 400	250/25°	12:30	18:30	2			24/75			low	
Ilford HP5	250/25°	10:30	15:30	2	+100	400/27°	24/75	15:00	3	slight	
Kodak 100Tmax	100/21°	10:30	15:30	2	+130	125/22°	24/75	15:30	3	very low	
Kodak 400 TriX	250/25°	11:30	17:00	2			24/75			very high	
Kodak 400 TMY2	500/28	11:00	16:30	2	+130	640/29°	24	17:00	4	high	
Rollei Pan25	20/14°	12:00	17:45	3	+130	25/15°	24/75	17:00	6	very high	
Rollei IR820/400	250/25°	15:00		2	+50	400/27°	24/75	12:00	2	low	
Rollei Retro 100 135/36	200/24°	14:00	20:00	3	+130	250/25°	24/75	20:00	6	low	
Rollei Retro 100 120	100/21	13:00	19:00	3			24/75			low	
Rollei Retro 400	250/25°	12:00	17:30	2	+60	400/27°	24/75	12:00	6	very high	

For tray development of sheet films, nominal speed ( Tmax400 10min) can be reached at 22°C by four inversions each 15 seconds, or in some cases even doubled ( Tmax100@200 12min).

Please use the development time- calculator at [www.moersch-photochemie.com/daten/daten.htm](http://www.moersch-photochemie.com/daten/daten.htm) for adjusting the duration at different temperatures.

On some films stain and basic fog are very high. In such cases the stop-bath can be prepared at 2% or an acidic fixing bath can be used. A reduction of stain with expanded time in stop-bath is possible. Washing 5-8 minutes