

FOMAPAN Cine 100

BLACK-AND-WHITE NEGATIVE FILM

In general

FOMAPAN Cine 100 is a panchromatically sensitized black-and-white negative film. It is primarily intended for shooting with a film camera, negative processing and subsequent digitization (scanning, post-production). It is characterized by low granularity, high resolving power, contour sharpness and a wide range of halftones. Nominal speed of the film is ISO 100/21°, but due to its wide exposure latitude the film gives very good results even when overexposed by 1 EV (as ISO 50/18°) or underexposed by 2 EV (as ISO 400/27°).

Speed

ISO 100/21°, 21° ČSN

Safelighting: infrared light or total darkness

Development

FOMAPAN Cine 100 can be processed in all common negative developers. Recommended development times are shown in the table below (the development times are related to development in a spiral developing tank - agitation or turning over continuously during the first 30 seconds, then during the first 10 seconds in every minute). In this way, medium-contrast negatives can be obtained.

Developer	Development time (minutes)	
	20 °C	30 °C
Fomadon LQN (1+10)	7 – 8	2,5
Fomadon R09 (1+50)	8 – 9	–
Fomadon P	7 – 8	4
Fomadon Excel	5 – 6	1,5
Kodak Xtol	5 – 6	1,5
Ilford Microphen–stock	5 – 7	2
Ilford Perceptol–stock	8	3,5
Ilford ID 11/ Kodak D76–stock	6 – 7	3
Tetenal Emofin Liquid	4 – 5	–

When the development time has elapsed, the film is recommended to be shortly rinsed in distilled water or dipped in a 2 % acetic acid solution for 10 seconds.

Fixing

At a temperature ranging from 18 to 25 °C for 10 minutes in any common type of an acid fixing bath, or for at least 3 minutes in Fomafix rapid fixer.

Washing

The film should be washed in running water: for 30 minutes and 15 minutes the temperature of water being below 15 °C and over 15 °C respectively.

It is recommended to finish the processing with the film being rinsed in distilled water, or dipped in a wetting agent solution.

Storage

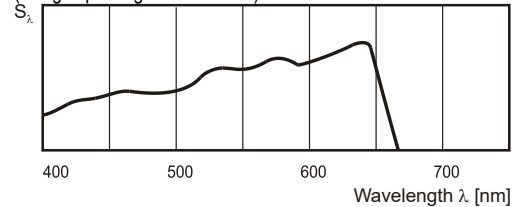
Unexposed films should be stored in the original packaging in a cool, dry place (temperature ranging from 5 to 25 °C, relative humidity from 40 to 60 %), out of reach of harmful vapours, gases and ionizing radiations. Films stored in a refrigerator and a freezer should be acclimatized to room temperature for approx. 2 and approx. 6 hours respectively. Exposed films should be processed as soon as possible.

Packaging

FOMAPAN Cine 100 is produced and supplied in the following sorts:

- in the width of 16 mm one-edge perforated, in the length of 30.5 m; perforation type: 1R-3000 (long pitch)
- in the width of 16 mm both-edge perforated, in the length of 30.5 m; perforation type: 2R- 3000 (long pitch)
- in the width of 16 mm, type 2x8 mm (standard), in the length of 10 m; perforation type: 2R-1500
- in the width of 16 mm, type 2 x DS 8 mm (super), in the length of 10 m; perforation type: 5R-1667 (long pitch)

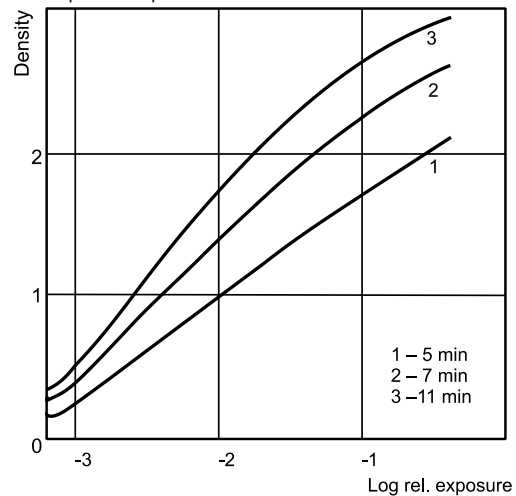
Relative spectral sensitivity (wedge spectrogram at 2850 K)



Characteristic curves

Exposure: Daylight (5500 K), 1/20 s

Developer: Microphen at 20 °C



Resolving power

110 lines per mm

Granularity

RMS = 13,5 (Microphen at 20 °C, developed to $\gamma = 0.6$, (measured at $D = 1.0$))

Base

FOMAPAN Cine 100 is produced on a gray or gray-blue base made triacetate with the thickness of 0.125 mm.

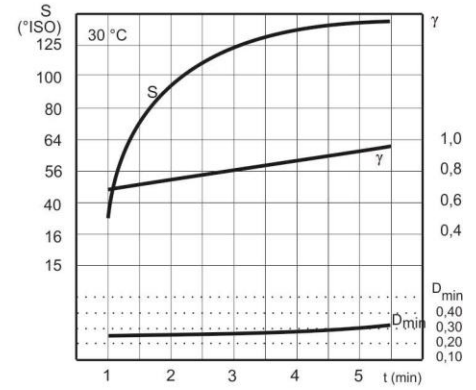
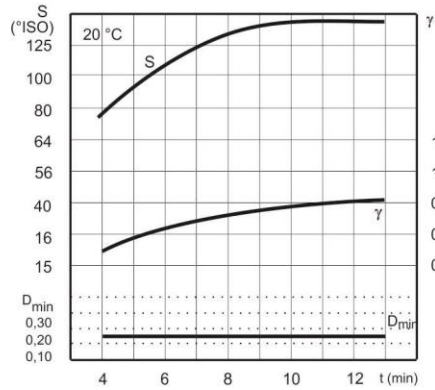
The product has been produced and marketed in conformity with a quality system according to the international standard EN ISO 9001.

DEVELOPMENT CURVES FOR FOMAPAN Cine 100

Ilford Microphen – stock

$D_{min}/S/\gamma$ – development time curves at 20 and 30 °C

- daylight $T_c = 5500$ K
- spiral developing tank - agitation or turning over continuously during the first 30 seconds, then during the first 10 seconds in every minute.

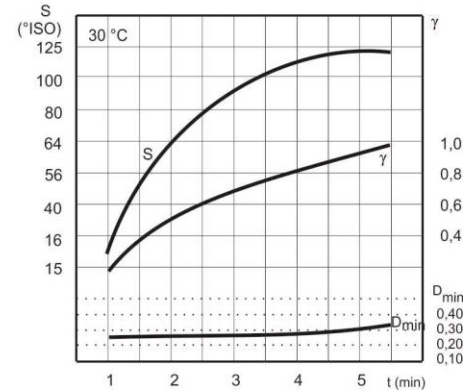
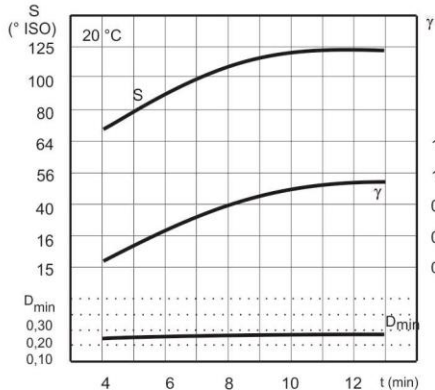


Ilford ID 11 – stock

Kodak D 76 – stock

$D_{min}/S/\gamma$ – development time curves at 20 and 30 °C

- daylight $T_c = 5500$ K
- spiral developing tank - agitation or turning over continuously during the first 30 seconds, then during the first 10 seconds in every minute.

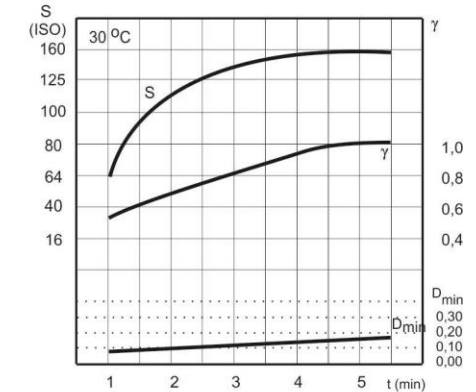
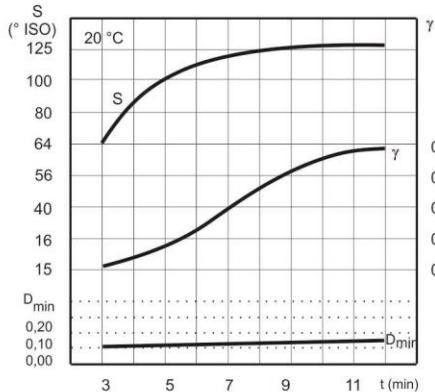


Fomadon Excel – stock

Kodak Xtol – stock

$D_{min}/S/\gamma$ – development time curves at 20 and 30 °C

- daylight $T_c = 5500$ K
- spiral developing tank - agitation or turning over continuously during the first 30 seconds, then during the first 10 seconds in every minute.



Fomadon LQN developer (1+10)

$D_{min}/S/\gamma$ – development time curves at 20 and 30 °C

- daylight $T_c = 5500$ K
- spiral developing tank - agitation or turning over continuously during the first 30 seconds, then during the first 10 seconds in every minute.

