Technical Information

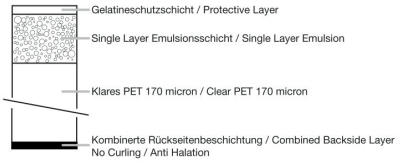
ADOX CHS 100 II B/W Film

Layers ADOX CHS 100 II Miniature Film/120 Film
Schichtaufbau ADOX CHS 100 II Kleinbildfilm/Rollfilm

ADOX CHS 100 II is an **orthopanchromatically sensitized B/W film** with classical grain and a sensitization optimized for greyscale separation.
The film is made from two separate emulsions in a single layer coating and yields a very large exposure latitude.
CHS 100 II shows a distinct shoulder in the highlights preventing the highlights from „blowing out".
Due to its classic sensitization it features a very harmonic tonal separation.
Compared to modern films it differentiates better between lips/face, clouds/sky, water/land.
The film is coated onto clear archival PET.

ADOX CHS 100 II can be reversal processed (including the sheet films). Due to the backside layer the sheet films are retouchable with photo dyes.

Layers ADOX CHS 100 II Sheetfilm
Schichtaufbau ADOX CHS 100 II Planfilm

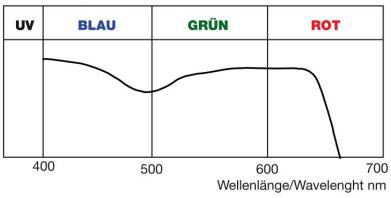


In 35mm and 120 format ADOX CHS100 II has two anti halation layers.
• Between the emulsion and the base (AHU)
• On the backside layer (anti halation, anti lightpiping and non curling).

Available formats:
- 35mm
- 120
- all sheet film sizes up to 20x24".

The backside layer is tinted in order to protect the film against the lightpiping effect which is immanent to films on a polyester base. The effect was reduced to a large extend but cannot be fully prevented. Thus CHS 100 II, like any other film on PET base, has to be protected from bright light whilst the film-tongue is sticking out of the cartridge.
Else light will penetrate through the base into the cartridge and fogg the beginning of the film.
Films with an AHU undercoat are not recomended to develop in taning developers such as Finol, Tanol or PMK containing either Brenzkatechin or Pyrogallol, because they may cause small holes in the film (emulsion lift off).

Spektral Response ADOX CHS 100 II
Spektrale Empfindlichkeit ADOX CHS 100 II



Speed:	ISO 100/21°
Base 35mm film:	Polyester (PET) 100 micron
Base 120 film:	Polyester (PET) 100 micron
Base sheet film:	Polyester (PET) 175 micron
Anti halation:	AHU plus backside AH/NC layer
Anti halation sheet film:	Backside AH/NC layer
Curling:	Combined NC/AH layer on the backside
Reciprocity failure:	up to 1 sec. no correction necessary
2 sec:	1,5x (3 sec)
4 sec:	2x (8 sec)
8 sec:	2,5x (20 sec)
15 sec:	3x (45 sec)
30 sec:	4x (120 sec)
60 sec:	6,5x (6 minutes 30 sec)

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DEVELOPING TIMES ADOX CHS 100 II

Developing timetable vor ADOX CHS 100 II film
Agitation: Agfa Agitation (the first minute continuously then every half minute 1 tilt)

Due to the extra AHU layer in the miniature and 120 format there are slight differences in the developing times between those films and the ADOX CHS 100 II sheetfilm.
In order to achive a medium contrast of 0,65 reduce the sheetfilm developing times by about 10%.

	TEMP	DIL.	TIME	BETA	ISO	HINWEISE/REMARKS
ADOX ADONAL 1+25	20 °C	1+25	5:30 - 6 :00	0,65	100/21°	
ADOX ADONAL 1+50	20 °C	1+50	12:30 - 13:30	0,65	100/21°	
ADOX ADX I+II	20 °C	1+24	7:00	0,65	125/22°	
ADOX ATOMAL	20 °C	Stock	6:30	0,65	100/21°	
ADOX ATOMAL 1+1	20 °C	1+1	10:00	0,65	100/21°	
ADOX FX-39 1+19	20 °C	1+19	13:00	0,65	100/21°	Kipp: 30s kont.; dann 10s pro Minute
ADOX FX-39 1+9	20 °C	1+9	7:30	0,65	100/21°	Kipp: 30s kont.; dann 10s pro Minute
ADOX SILVERMAX Entwickler	20 °C	1+19	8:30	0,65	100/21°	
ADOX SILVERMAX Entwickler	20 °C	1+19	10:00	0,70	125/22°	
Ilford DDX	20 °C	1+4	7:00	0,65	100/21°	
Ilford ID-11	20 °C	1+1	7:30	0,65	100/21°	
Kodak D-76	20 °C	Stock	6:30	0,65	100/21°	
Kodak D-76 1+1	20 °C	1+1	9:00	0,65	100/21°	
Kodak HC-110 B	20 °C	1+31	5:30	0,65	100/21°	Kodak-Kipp (alle 30s für 5 Sek)
Kodak HC-110 D	20 °C	1+39	7:00	0,65	100/21°	Kodak-Kipp (alle 30s für 5 Sek)
Kodak HC-110 E	20 °C	1+47	9:00	0,65	100/21°	Kodak-Kipp (alle 30s für 5 Sek)
Kodak XTOL	20 °C	1+1	8:00	0,65	100/21°	
Moersch Finol			---			Nicht empfohlen / Not recomended
Moersch Tanol			---			Nicht empfohlen / Not recomended
PMK			---			Nicht empfohlen / Not recomended