

:AVITONE CP 94

Negative colour copying film

:Avitone CP 94 is a negative colour copying film for making positive slides from aerial negatives. The film can be processed in standard AP 94 chemistry (equivalent to RA-4) for colour paper. Thickness of the polyester base : 0.175 mm.

■ Applications

The film is used in photogrammetry for making positive slides from aerial negatives, for use in orthoplotters.

It is also suitable for transparency displays.

■ Characteristics

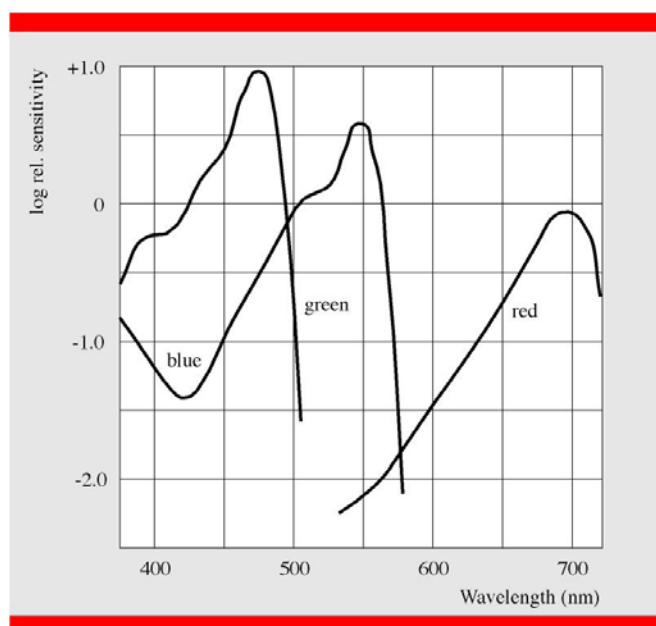
- High colour saturation and brilliance.
- Optimised contrast range.
- Excellent sharpness.
- Fine detail and colour rendition.
- Good colour stability due to the use of true-colour dyes and UV absorbers in all the inter-layers.
- Reliable processing in AP 94 process (equivalent to RA-4), the most commonly used processing system for colour paper.
- Excellent sensitivity for copying.
- Good dimensional stability due to the 0.175 mm polyester base.

■ Photographic data

Colour sensitivity

Panchromatic.

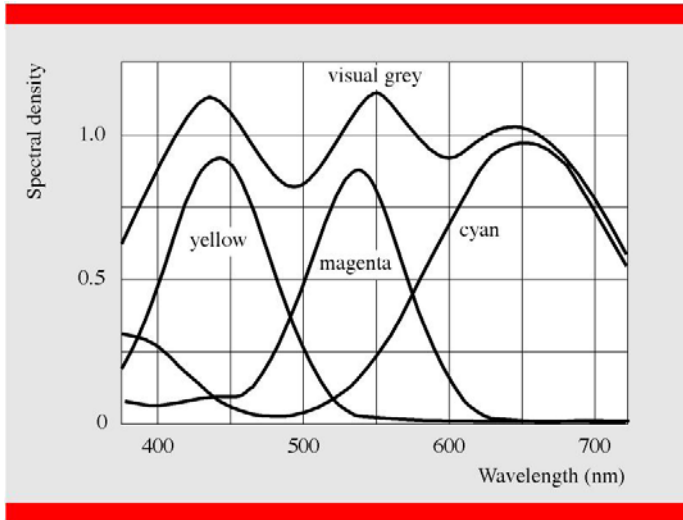
Spectral sensitivity



The curves refer to a density of 1.0 in transparency. Sensitivity is reciprocal of the exposure (mJ/m²) required to produce the indicated density.

Spectral density

The curve shows the spectral densities of the dyes at a visually neutral grey tone (density 1.0) in transparency.



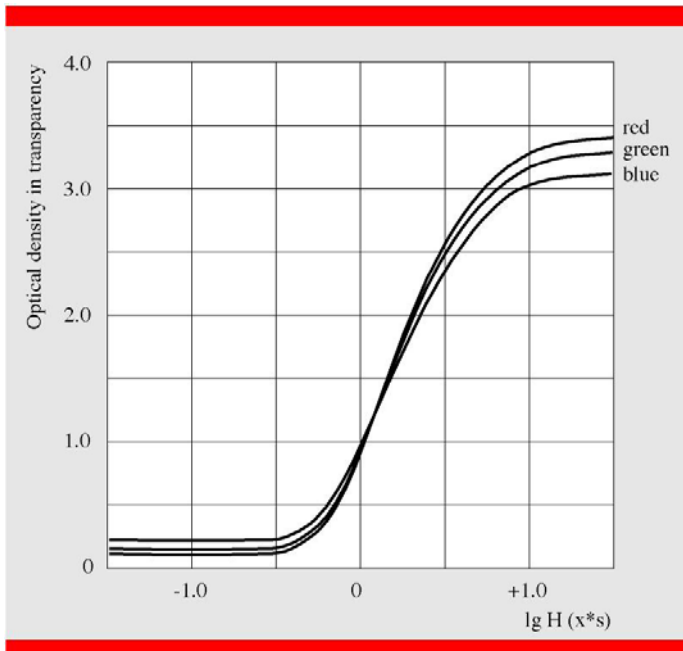
TOC (Target Object Contrast)

Measured according to ANSI PH 22.33-1980.

TOC 1000:1 = 228 lp/mm or 456 dots/mm.

TOC 1.6:1 = 72 lp/mm or 144 dots/mm.

Colour density curves

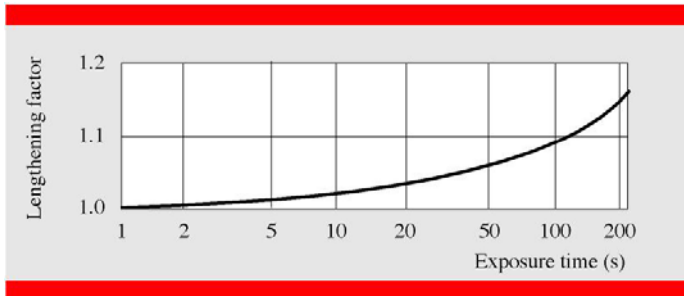
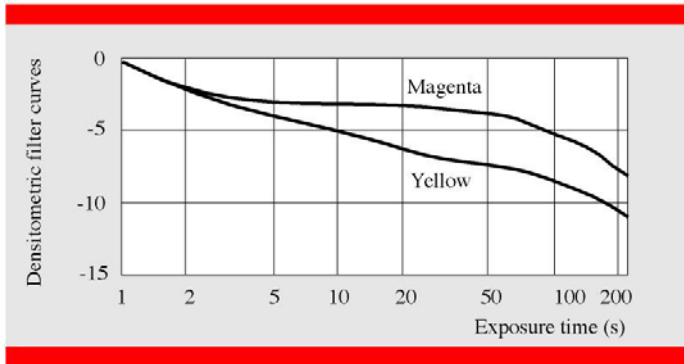


Exposure: artificial light 14 s + neutral filtration.

Process: AP 94 (developer at 35 °C/95 °F for 110 s).

Densitometry: Status A.

Reciprocity effect



■ Production guidelines

Darkroom lighting

:Avitone CP 94 should only be handled in total darkness.

Exposure

:Avitone CP 94 can be exposed in most contact frames and enlargers. The film is suitable for a colour temperature of approx. 3000K.

Processing

:Avitone CP 94 can be processed in :Agfacolor Process AP 94 Professional, which is compatible with RA-4 processing.

Standard process AP 94

Process solution	Time	Temperature	Replenisher	Replenishment rates ⁽²⁾
Developer	110 s ⁽¹⁾	35 ± 0.3 °C (95 ± 0.5 °F)	94 CD-R Prof.	495 ml/m ²
Bleach-Fix	110 s	30 - 36 °C (86 - 97 °F)	94 BX-MR	495 ml/m ²
Wash	220 s	30 - 40 °C (86 - 104 °F)	-	2 - 11 l/ m ²
Drying	-	max. 80 °C (176 °F)	-	-

A developing time of 150 seconds guarantees neutral shadows, deep blacks where needed and a clean white colour.

Recommended processing in CP 94 professional

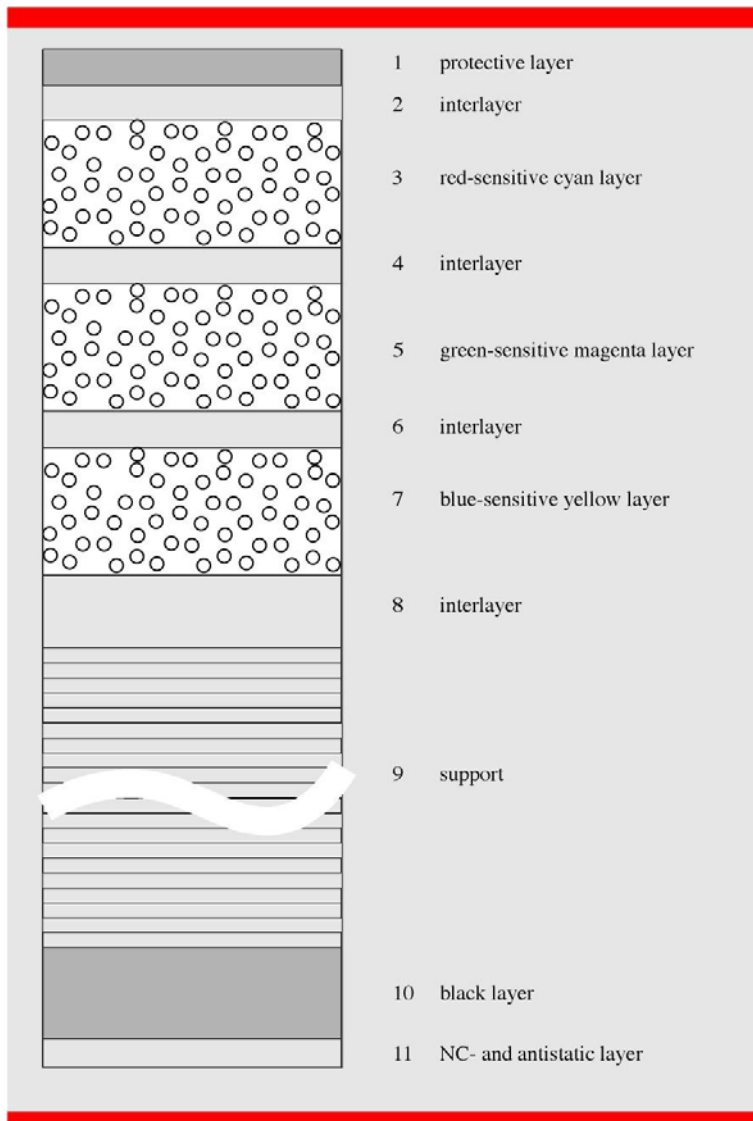
Loading	Developer	Bleach-Fix
Low loading	94 CD-R Prof.	94 BX-MR Prof.
Average loading	94 CD-LR Prof.	94 BX-LOR Prof.
High loading	94 CD-LOR Prof.	94 BX-LOR Prof.

■ Storage

:Avitone CP 94 film has to be stored in a cool and dry place, preferably at a temperature between +2 °C/36 °F and +10 °C/50 °F. The film should be taken out of the cool room at least 30 minutes before use. Keeping the film in deep freeze at -20 °C/-5 °F considerably delays its ageing process and guarantees longer freshness. Film, which has been kept in deep freeze, has to remain in room temperature for a least 8 hours before use.

■ Film structure

The light-sensitive emulsions consist of silver halide crystals embedded in gelatine. The protective layer and the interlayers are also gelatine layers. On the back of the film there is a back layer and a non-curling (NC), antistatic coating.



Total thickness: approx. 208 μm .

■ Assortment

:Avitone CP 94 - standard sizes*

Size		Spool/Winding/Perforation	Order code
240 mm x 30.5 m	9.7/16" x 100 ft	AM897 – EI – NP	3158V
254 mm x 30.5 m	10" x 100 ft	UCT76 – EI – NP	3WTTQ
		Packaging	
254 x 254 mm	10 x 10"	50 sheets	3WTSO

* For all other sizes, please contact your local Agfa representative.

Subject to change without prior notice

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