

# AVIPHOT PAN 20 PEO

A panchromatic negative film for high altitude aerial photography.

Aviphot Pan 20 PEO is a panchromatic aerial negative very high resolution film, coated onto a transparent polyester base. This thinner base material allows larger film capacity on spools or cores.

## Characteristics

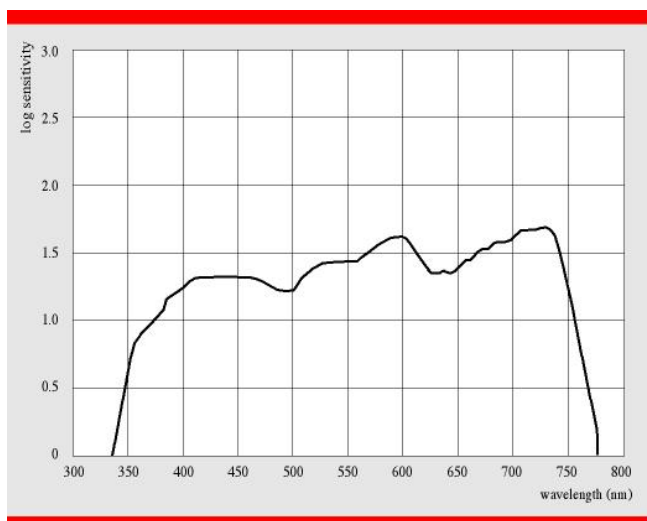
- Aviphot Pan 20 PEO has a high-efficiency protection layer on top of its emulsion to prevent scratching and pre- or desensitising by pressure.
- Base substrate and backlayer keep their antistatic properties, even after processing.
- The spectral sensitivity of Aviphot Pan 20 PEO is expanded into the near infrared range of the energy spectrum. As a result, the film offers excellent penetration through haze, fog and other atmospheric conditions liable to affect the image quality . Due to the reduced scattering by the atmosphere, images are sharp and well edged.
- Its spectral sensitivity to up to 750 nm , very low grain property and its high contrast sensitometry makes Aviphot Pan 20 PEO an outstanding tool for small detail recognition.
- The photographic speed has been chosen in compatibility with existing competing films.
- The image contrast is high and quite independent form the processing parameters.
- Processing can take place in a continuous tone processor.

## ■ Applications

- The thin base , the very fine graininess and the high sharpness of the film, makes it ideal for use in military very high altitude reconnaissance.
- Its high sensitivity in the near IR spectrum makes this film a unique product

## ■ Photographic data

- **Colour sensitivity:** panchromatic up to 750 nm.
- Absolute spectral sensitivity



Sensitivity is reciprocal of the exposure ( $\text{mJ/m}^2$ ) required to produce a diffuse density of 1.0 above fog. Processed in Gevatone 66, G 74 c developer at 30 °C for 42 seconds.

- Resolution

Measured on USAF 1951 resolution test patterns.

Processed in Gevatone 66, in G 74 c developer at 30 °C for 42 s.

TOC (target object contrast) 1000:1 = 800 line pairs or 1600 dots/mm.

TOC 1,6:1 = 250 line pairs or 500 dots/mm.

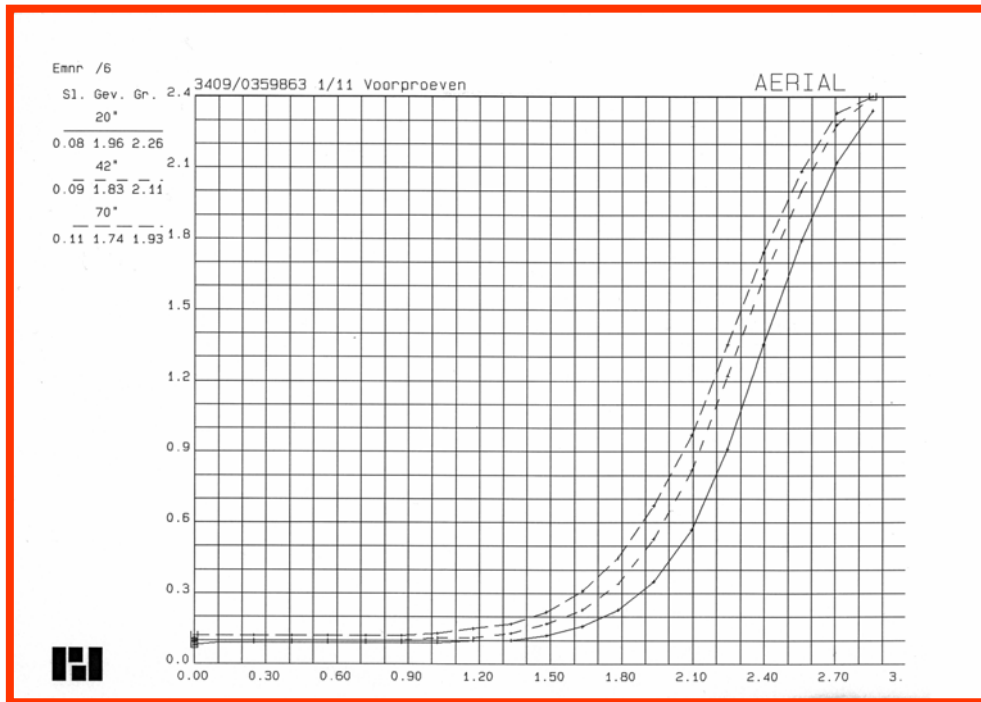
- Granularity / Graininess

RMS granularity : 8 at a density of 1.0 above fog

RMS granularity calculated from a microdensitometric scan with 50 µm spot.

Processing in Gevatone 66 processor, in G 74 c at 30 °C, for 42 seconds developing time.

- Characteristic Curves at 20,42 and 70 seconds processing time



SI: Fog level : 0.08 / 0.09 / 0.11  
 Gev: Speed : 16 / 22 / 27 eafs  
 Gr: Contrast : 2.26 / 2.11 / 1.93

## ■ Production guidelines

### Darkroom lighting

The film should be handled in complete darkness.

### Exposure

The film sensitivity can vary with processing.

Aviphot Pan 20 can be exposed as a 16 EAFS to 25 EAFS film.

Subject to change without prior notice.

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