

AVIPHOT PAN 40 PEO

A panchromatic negative film for high altitude aerial photography.

Aviphot Pan 40 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

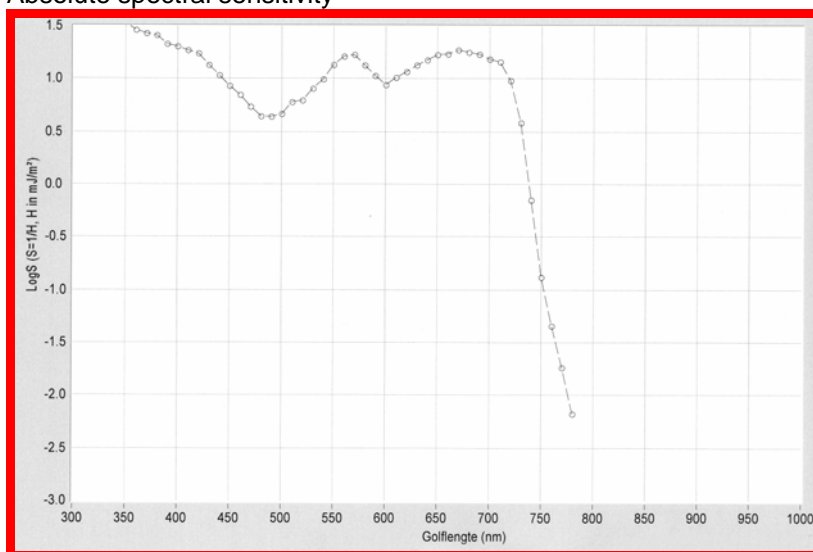
- Aviphot Pan 40 PEO has a high-efficiency protection layer on top of its emulsion to prevent scratching and pre- or desensitising by pressure.
- Base substrate and backlayer keep their antistatic properties, even after processing.
- The spectral sensitivity of Aviphot Pan 40 PEO is expanded into the 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 40 PEO an outstanding tool for small detail recognition.
- The photographic speed has been chosen in compatibility with existing competing films.
- 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 medium to high altitude reconnaissance.
- Its high sensitivity in the near IR spectrum makes this film a unique product

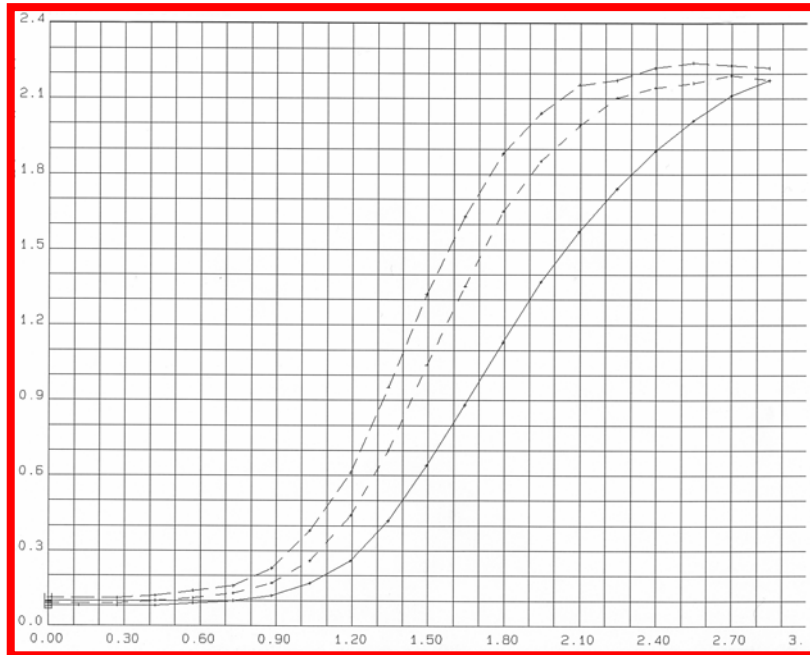
■ Photographic data

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



Sensitivity is reciprocal of the exposure (mJ/m^2) required to produce a diffuse density of 0.3 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 = 400 line pairs or 800 dots/mm.
 - TOC 1,6:1 = 125 line pairs or 250 dots/mm.
- Granularity / Graininess
 - RMS granularity: 9 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 :



Fog level: 0.08 / 0.08 / 0.10
 Speed: 37 / 55 / 67 eafs
 Average Gradient: 1.57 / 1.97 / 2.08

■ Production guidelines

Darkroom lighting

The film should be handled in complete darkness.

Exposure

The film sensitivity can vary with processing.

Aviphot Pan 40 can be exposed as a 32 EAFS to 80 EAFS film.

Subject to change without prior notice.
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