



Technical Information

SCIENTIA FILM 42A56 P3 AH

General properties

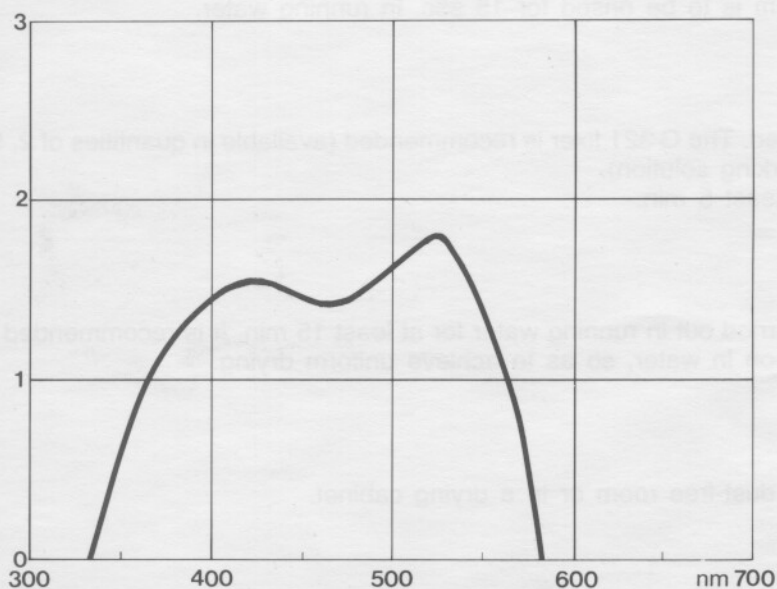
A fine-grain emulsion on polyester base especially designed for photomicrography and more particularly for microscopic metallographic research. The emulsion side is easily recognizable, even in the darkroom, because it is lighter than the antihalation backing.

The clear polyester base of the Scientia 42A56 film has a thickness of 0.17 mm and ensures perfect dimensional stability and flatness.

General speed

31 ASA or 16 DIN with 6 minutes developing in Refinal developer. Speed of the Scientia 42A56 P3 AH film is about 50 % higher than the former 42A56 AH and this offers the advantage of shorter exposure times, which in its turn benefits the image definition (thus avoiding blur resulting from vibration and movement).

Spectral sensitivity (see spectrogram)



Spectrogram with tungsten light (3.200° K)

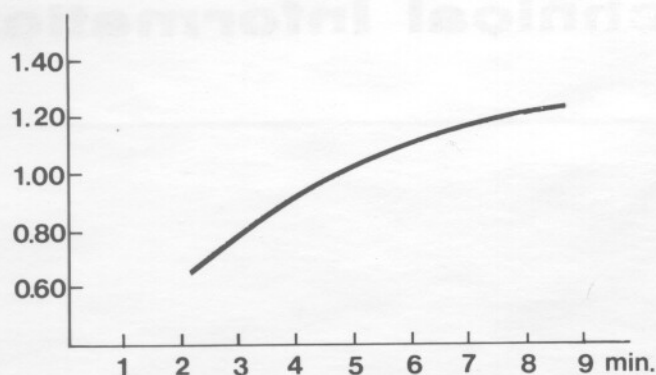
PROCESSING

Recommended darkroom filter : R4 (dark-red)

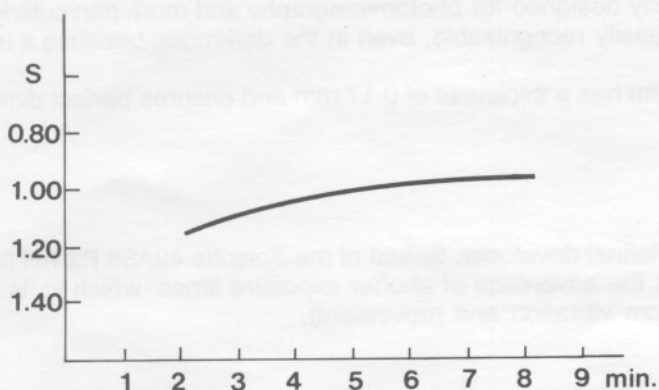
Development :

Recommended developer : Refinal - fine-grain developer in powder form.

Developing time : can be changed depending on the gamma to be obtained (see curve).



Average gradient -
developing time curve



Speed-developing time curve

Intermediate rinsing

After development, the film is to be rinsed for 15 sec. in running water.

Fixing

Any fixing bath may be used. The G 321 fixer is recommended (available in quantities of 2, 5 and 20 litres, for respectively 10, 25 and 100 litres working solution).

Fixing time at 20° C : at least 5 min.

Rinsing

The final rinse is to be carried out in running water for at least 15 min. It is recommended to give an aftertreatment in a solution of 10 o/oo Agepon in water, so as to achieve uniform drying.

Drying

Is to be carried out in a dust-free room or in a drying cabinet.

ASSORTMENT

Sheet film (polyester base of 0.17 mm in thickness)

- 6.5 x 9 cm/per 2 x 50 sheets
- 9 x 12 cm/per 2 x 50 sheets
- 13 x 18 cm/per 2 x 50 sheets

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