

vom vorhandenen unbelichteten Material der gleichen Emulsionsnummer unter Angabe des Reklamationsgrundes, der Emulsionsnummer und der Verarbeitung an uns einzusenden. Wird von uns ein Fabrikationsfehler festgestellt, so geben wir für das zurückgesandte Material kostenlosen Ersatz in gleicher Sorte und Menge. Das Transportrisiko geht hierbei zu Lasten des Kunden. Weitere Ansprüche können nicht anerkannt werden.

VEB FILMFABRIK WOLFEN · Fotochemisches Kombinat
Technischer Kundendienst
444 Wolfen · Deutsche Demokratische Republik

Instructions for Use

ORWO Document Film

(panchromatic)

Application

Document Film DK 5/DK 51 is the suitable material for the reproduction of all kind of single and multi-coloured originals: for publications, books, journals, drawings, documents, letters, etc. Thanks to its excellent fineness of grain and high resolving power it is suitable for extreme reductions, for instance, it is possible to get still good evaluable miniature negatives size 32x45 mm from DIN A 0-line drawings. The exposure is done in special Dokumator cameras or usual miniature cameras, in case of sheet films in corresponding cameras resp. in size A 6 (DK 51) in Microfiche cameras of type Pentakta E 100.

Properties

The film is panchromatically sensitized. If pure red colour shades on white ground with unobjectionable grey tonal values are wanted the use of ORWO Filter No. 61 (multiplication factor 3) is recommended.

DK 5/DK 51 has a stained emulsion layer as well as an anti-halation backing in order to guarantee a high contour sharpness. The film has a hardly inflammable colourless safety base, thus permitting a more extensive storage, e. g. for archives.

Attention: DK 5, 16 mm width, is delivered in daylight spools that means the spool can be shortly exposed to ambient light when loading the cassette resp. removing it after the exposure. For this purpose there are altogether 2,60 m of film (forward 1,70 m, trailer 0,90 m) in addition to the commercial length of 30,5 m. This additional film has to

be considered as not usable (already exposed) when taking shots.

Darkroom Lighting

Processing in complete darkness or with ORWO Safelight No. 108, green (15 watt bulb, indirect lighting).

Processing

DK 5/DK 51 is developed in developing machines, rewinders boxes or tanks either in the usual way (develop/stop/fix/wash: look instruction 1100 in „ORWO Formulae“, VEB Filmfabrik Wolfen) or in ORWO fixing developer F 199 (developing and fixing in one action, then washing).

ORWO	Time	Contrast	Temperature
A 71	3..4 min.	} tank } box high hard normal normal	} 20 °C
M-H 28 (1+4)	3..4 min.		
R 09 (1+20)	4..6 min.		
A 87 (1+4)	1 min. machine	normal	23 °C
F 199	2 min. machine	normal	25 °C
	4..5 min. box	normal	

The fixing development is done with permanent intensive moving. Compared with the usual negative development a film to be processed in F 199 needs approx. double of the exposure time.

Storage of unexposed films

The sensibility and other properties of all photographic emulsions depend on the time and kind of storage. It is recommendable to keep films cool (below 20 °C, 68 °F) and dry (50-60% relative air humidity).

Storage of processed films

For an unlimited storing tightly sealable containers of tin plate or other not corroding metals must be used. The store rooms must be free from gas and vapours, the temperature should not be more than 20 °C, and the relative air humidity has to be between 40 and 60%. By a sufficient fixing and washing time it has to be guaranteed that the concentration of thiosulphate compounds remains below 0,0008 mg/cm² of emulsion layer as otherwise - possibly after years - spots can appear. Finger prints and other stains as well as scratches must be carefully avoided (use not fuzzing gloves). Cardboard and paper must not be used for storing.

Complaints

All products of our factory are manufactured with the utmost care. Should nevertheless a fault be found, we shall be grateful if the defective material, and, if possible, also some unused material of the same emulsion number, were sent to us, indicating the reason for the complaint, the emulsion number and the method used for processing. If according to our investigation there has been a fault in manufacture the returned material will be replaced in similar type and quantity free of charge. Transport is at customer's own risk. No other claims will be considered.

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Mode d'emploi

Film pour Documentation ORWO

(panchromatique)

Domaine d'utilisation

Les films pour documentation ORWO DK 5 et DK 51 conviennent parfaitement aux travaux de reproduction des sujets monochromes ou polychromes de toute espèce: des ouvrages imprimés, livres, revues, dessins, documents, lettres etc. Pour raison la granularité fine et du pouvoir résolvant important de son émulsion, il convient aux reproductions à réduction extrême, ce qui permet d'effectuer p. ex., à partir des dessins, à trait du format de DIN A 0 (84 cm x 119 cm) des négatifs du petit format de 32 mm x 45 mm. L'exposition sera faite dans des dispositifs spéciaux de documentation ou avec des appareils habituels de petit format et, pour les films semi-rigides, avec des appareils aux formats correspondants ou au format A 6 (DK 51) dans les caméras à microfiche du type Pentakta E 100.

Caractéristiques

Sensibilisation panchromatique, Une différenciation parfaite en tonalités grises lors de la reproduction des nuances de rouge pur se trouvant sur un fond blanc sera obtenue par l'application d'un filtre ORWO n° 61 (facteur de prolongation 3).

Pour assurer une netteté excellente des contours, le DK 5 et le DK 51 sont pourvus d'une émulsion teintée ainsi que d'une couche antihalo dorsale.