

The HP 441 type is a blue-sensitive **screen film** and can only be used in combination with blue-emitting X-ray intensifying screens, preferably with emission maxima or a main band width in the range of 350 – 420 (nm). The **film packet** contains the number of film sheets indicated on the side of the film packet in NIF arrangement (non-interleaved folder). The film base consists of a flame-resistant polyester (PET: polyethylene terephthalate): **safety film**.

Processing conditions to permit determination of manufacturers' specifications:

X-ray film continuous processor	AGFA CURIX 160
Processing time	90 seconds (dry/dry)
Developer type	Tetanal HC
Developing bath temperature	33°C

Temperature as a function of the relative sensitivity and the mean exposure:

Based on a developing bath temperature of 33°C, a temperature increase of 3°C increases the sensitivity by just under one exposure point ($\Delta \log K = 0.1$), and slightly increases the mean exposure by approx. 6%. On the other hand, a temperature decrease of 3°C based on a developing bath temperature of 33°C decreases the sensitivity by one exposure point and decreases the mean exposure by a comparable value.

Mean exposure:

Under the aforementioned processing conditions, the value for the mean exposure is
 $G = 2.9$

LE and LK (sensitivity and contrast) (as per DIN 6868-55*)

$LE = 1.55 \pm 0.09$

$LK = 2.6 \pm 11\%$

*Processing baths in steady state in mixed operation with ortho films.

D A T A S H E E T

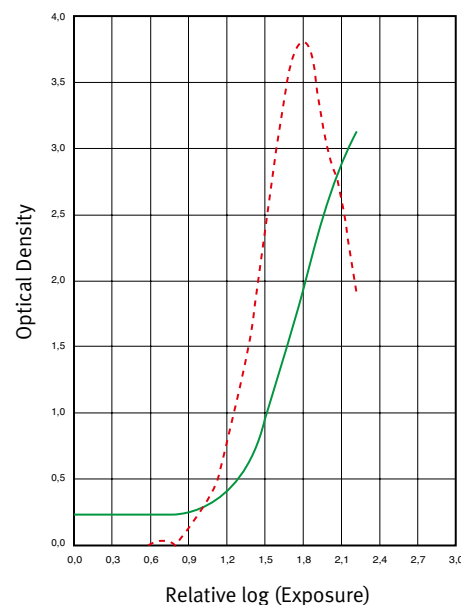
HP 441

in compliance with communications issued by the Federal Ministry of Labour and Social Affairs (1992) and the draft of a CENELEC Standard: X-Ray Film (status 2000)

Density curve

(as per ISO 9236/DIN 6867-1)

Density and Exposure Graph



D A T A S H E E T

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Conditions regarding temperature, humidity and background radiation during use, storage and transport



Storage:
between 10 and 24°C
between 30 and 50%
rel. humidity



Protect against hard radiation; max. local dose rate 90 nGy/h



Protect against solar radiation
Store only in enclosed rooms; protect against moisture

Storage, handling and transport of the indicated film type preferably in accordance with the DIN 6860 standard.

Dark room illumination

Film handling only under suitable dark room illumination, e.g. Kodak dark room filter type GBX.2.

Control of the dark room safety and determination of the safe handling time for users of X-ray equipment as defined in DIN 6868-2/-55.

Package marking

Marking on the film packet

Type: HP 441
Nominal size: e.g. 13 x 18 cm
LOT: e.g. 134 010 05
Expiry date: e.g. 2002-08 (August 2002)
Information on storage of packet: see above
Manufacturer: see below

Declaration of conformity

The CE mark documents the conformity of this medical product with the fundamental requirements laid down in the Medical Device Directive of the Law on Medical Products.

Safety standard:



Applied directives:

Directive 93/42/EEC of the Medical Products Council Medical products law (Germany, Austria)

Manufacturer:

Valmex® Photographische Produkte GmbH
Partnachweg 1, D-86165 Augsburg, Germany
Tel.: +49 821 719 603, Fax: +49 821 719 849
<http://www.valmex.de>

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