



INDUX R8

INDUSTRIAL X-RAY FILM

General information

INDUX R8 is an industrial radiographic film intended for non-destructive material testing using X- or gamma radiation.

INDUX R8 is a very high-speed, high-contrast, medium-grain film suitable for radiography with or without lead screens.

INDUX R8 corresponds with the class C6 classification according to EN ISO 11699-1 standard and according to ASTM E1815 standard with class III.

Applications

INDUX R8 should be used for applications where the high film speed is an advantage, e.g. in the radiography of thick-walled parts/products and materials, engineering structures, etc. or when exposure times should be minimized. The usage of film in combination with fluorometalic screens results in further shortening of exposure times.

Packaging forms

<u>daylight packaging (FOMAPAK)</u> – one-sheet vacuum-sealed packaging with lead screens of 0,025 mm thickness Sizes: 6x10, 6x12, 6x16, 6x20, 6x24, 6x30, 6x40, 6x48, 10x10, 10x12, 10x16, 10x20, 10x24, 10x30, 10x40, 10x48, 18x24, 30x40 cm in boxes and other sizes according to an agreement with manufacturer.

The vacuum-sealed packaging FOMAPAK ensures optimum contact of film surface with lead screens, simple handling, and is light-tight, air-tight and waterproof.

darkroom packaging (KB)

Sizes: 6x24, 6x40, 6x48, 10x12, 10x20, 10x24, 10x40, 10x48, 10x72, 18x24, 30x40 cm in boxes and other sizes according to an agreement with manufacturer.

Rollfilm packaging

- rollfilm with lead screen
- rollfilm without lead screen (DW)
- bare rollfilm (BLR)

for more details see the technical data sheet of ROLLFILM.

Other sizes are subject to be agreed with the manufacturer.

Film base

INDUX R8 is manufactured on a dimensionally stable bluish polyester base of 0,175 mm thickness.

Screens

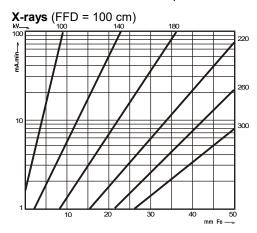
Screens-packed kinds (FOMAPAK) content lead screens 0,025 mm thick, backed by a paper of 70 - 90 g/sq. m of basic weight, on both film sides.

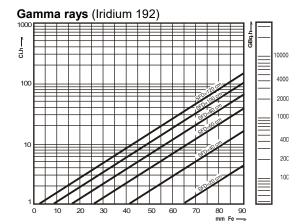
Darkroom illumination

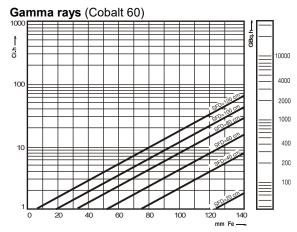
The film is processed at yellow safety illumination with wavelength of 590 nm and higher. Length of exposure and a distance of the processed material from the illumination source should be tested.

Exposure charts for steel

For optical density D=2, front and back lead screens 0,025 mm thick, FOMADUX LP-T Developer 5 minutes at 20 °C.







Processing

INDUX R8 is intended both for the manual and automatic processing.

Recommended chemicals for the manual processing:

FOMADUX LP-T Developer and Developer-Replenisher (5 minutes of developing time at 20 °C, 1 + 3) FOMADUX FIX Rapid Fixer

FOTONAL - Wetting Agent

Recommended chemicals for the automatic processing:

FOMADUX LP-D Developer-Replenisher

(2 minutes of developer immersion time at 28 °C)

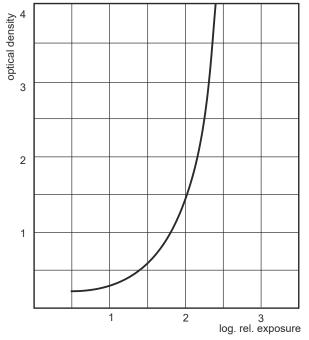
FOMA LP-DS Developer Starter

FOMADUX FIX-Set Hardening Fixer - part A (fixer) + part B

INDUX R8 can also be processed in corresponding processing chemicals of other manufacturers, for example developer Agfa G135 for automatic processing 100 seconds of developer immersion time at 28 °C or G128 for manual processing 5 minutes of developing time at 20 °C.

Sensitometric characteristic

220 kV/10 mA/8 mm Cu, automatic processing, FOMADUX LP-D Developer, 8 minutes of processing time at 28 °C (corresponds with 2 minutes developer immersion time)



Archiving of processed films

The manufacturer guarantees the archival permanence of minimum 50 years when complying with conditions following:

- films must be perfectly fixed and washedfilms must be stored at a relative humidity of 30 to 60% out of reach of harmful gases.

Storage of unexposed films

Unexposed films should be stored in the vertical position in the original packaging in a cool, dry place (temperature ranging from 10 to 25 °C, relative humidity from 40 to 60 %), out of reach of harmful vapours, gases and ionizing radiations.

After opening the film bag, you must re-close it with two folds to secure it against opening. This prevents air moisture from entering the film bag.

Exposed films should be processed as soon as possible.

By using and processing of the product Indux R8 arise wastes. which is necessary to environmentally liquidate according to valid legislation.

Wastes:

- packaging foil: PET/AL/PE or PAPER/AL/PE
- Pb foil
- waste developers
- waste fixers

Information according to Article 33 of REACH: The product INDUX contains lead. This substance is included in the list of substances (for possible inclusion in Annex XIV). After handling, hygiene rules must be followed. More information at www.foma.cz

The product has been produced and marketed in conformity with a quality system according to the international standard ISO 9001.

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