

# 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 the EN 584-1 standard or according ASTM E 1815 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 fluorometallic screens results in further shortening of exposure times.

### Packaging forms

daylight packaging (FOMAPAK) – 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 and 10x48 cm in boxes of 50 sheets.

Sizes: 30x40 cm in boxes of 25 sheets.

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, 10x24, 10x40, 10x48 and 10x72 cm in boxes of 100 sheets.

Sizes: 10x20, 18x24, 24x30, 30x40 and 35x43 cm interleaved (IF, FW) in boxes of 50 sheets.

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 basis weight, on both film sides.

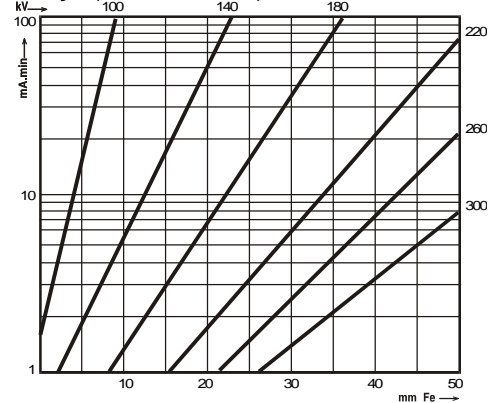
### Darkroom illumination

INDUX R8 should be handled and processed under indirect safelight illumination with a wavelength over 520 nm. Recommended are safelight filters Agfa R1 filter (dark red) or Agfa G7 filter (olive-green) in a safelight lamp with a 25 watt bulb and placed in a distance of minimum 75 cm between the reflective surface and the film, or LED light sources with a wavelength of 660 nm or 590 nm.

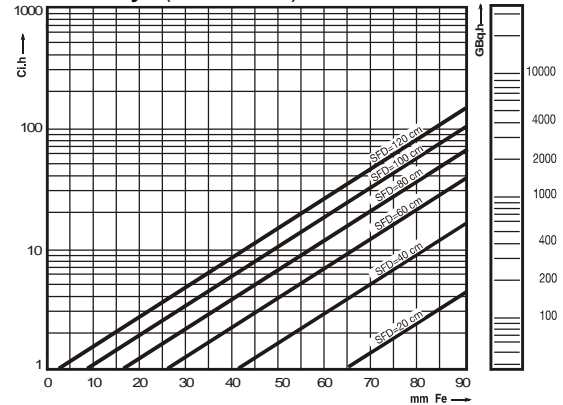
### Exposure charts for steel

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

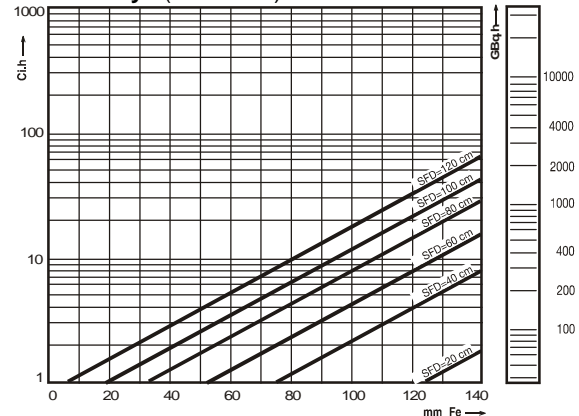
#### X-rays (FDD = 100 cm)



#### Gamma rays (Iridium 192)



#### Gamma rays (Cobalt 60)



## 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)

FOMAFIX Rapid Fixer

### Recommended chemicals for the automatic processing:

FOMADUX LP-D Developer-Replenisher  
(2 minutes of developer immersion time at 28 °C)

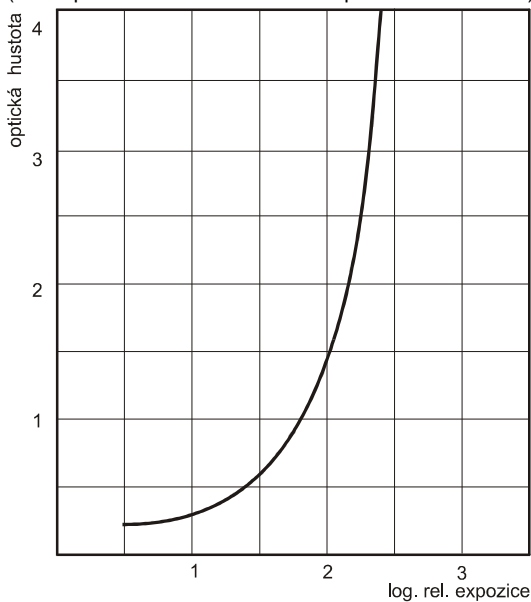
FOMA LP-DS Developer Starter

FOMAFIX + FOMAFIX H Hardening Rapid Fixer.

INDUX R8 can also be processed in corresponding processing chemicals of other manufacturers, for example developer Agfa G135 for automatic processing 2 minutes of developer immersion time at 28 °C or G128 for manual processing 5 minutes of developing time at 20 °C.

### Sensitometric characteristic

Source ISO 2 (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 washed
- films 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 original packaging in a cool, dry place (temperature ranging from 5 to 21 °C, relative humidity from 40 to 60 %), out of reach of harmful vapours, gases and ionizing radiations. Films stored in a refrigerator and a freezer should be acclimatized to room temperature for approx. 2 and approx. 6 hours respectively.

Exposed films should be processed as soon as possible.

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The product has been produced and marketed in conformity with a quality system according to the international standard EN ISO 9001:2000.