

FUJIFILM INDUSTRIAL X-RAY FILM

IX600

FUJIFILM INDUSTRIAL X-RAY FILM IX600 is Fujifilm's fastest film for exposures in combination with fluorescent screens or fluorometallic screens.

Features:

- High speed to fluorescent screens and fluorometallic screens.
- High contrast with fluorescent screens and fluorometallic screens.
- Fine grain
- Low X-ray energy source.
- Concrete and heavy constructions, pipeline and thick wall casting applications.

Film Characteristic:

Manual processing

Screen	Base + Fog	Relative Exposure		Contrast G1.5-3.5	
		X-ray 80kV	X-ray 220kV	X-ray 80kV	X-ray 220kV
FUJIFILM IXG2	0.21	1.0	1.0	5.60	5.37
UPV-2	0.21	3.3	3.7	6.70	7.05
SMP-1	0.22	7.8	5.4	6.09	6.52

Automatic processing

Screen	Base + Fog	Relative Exposure		Contrast G1.5-3.5	
		X-ray 80kV	X-ray 220kV	X-ray 80kV	X-ray 220kV
FUJIFILM IXG2	0.21	1.0	1.0	6.08	6.08
UPV-2	0.21	3.3	3.5	7.00	7.72
SMP-1	0.22	7.4	6.5	6.66	6.78

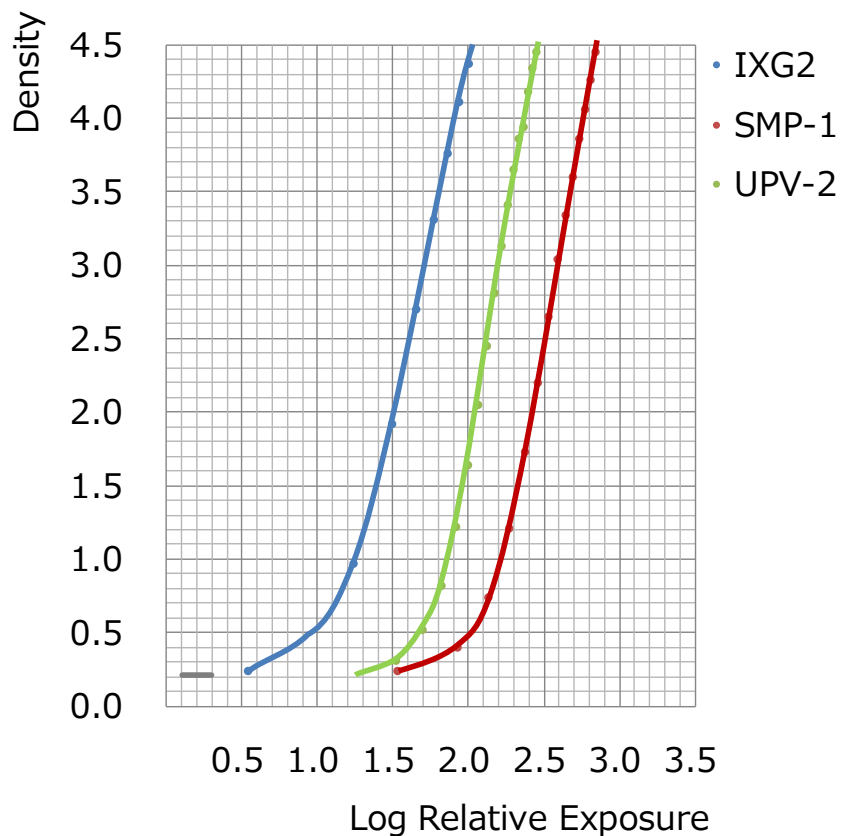
Characteristic Curve:

Manual processing

Exposure: X-ray 80kV

Processing: 20°C5minutes

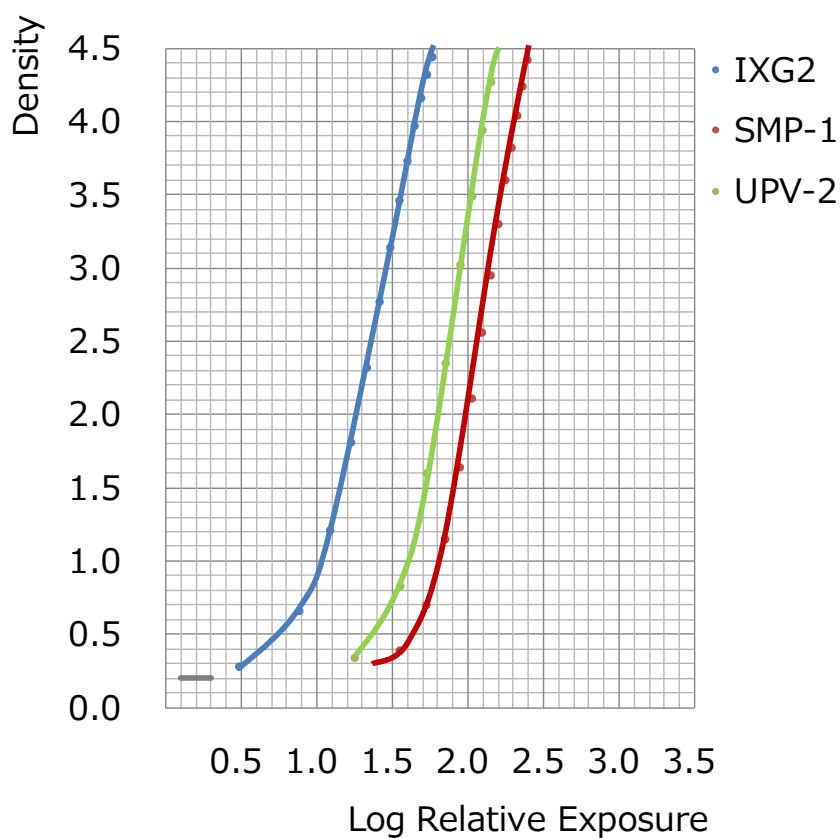
Developer: Hi-RENDOL I



Exposure: X-ray 220kV

Processing: 20°C5minutes

Developer: Hi-RENDOL I



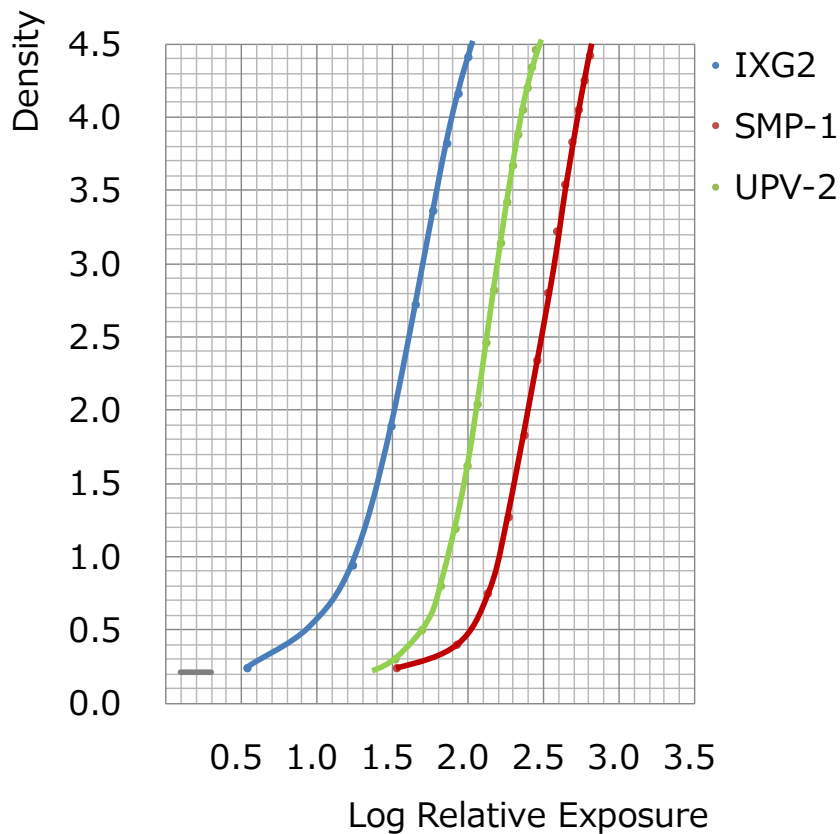
Automatic Processing

Exposure: X-ray 80kV

Processing: 23°C120seconds

Developer: SUPERDOL I

Processor: FIP7000

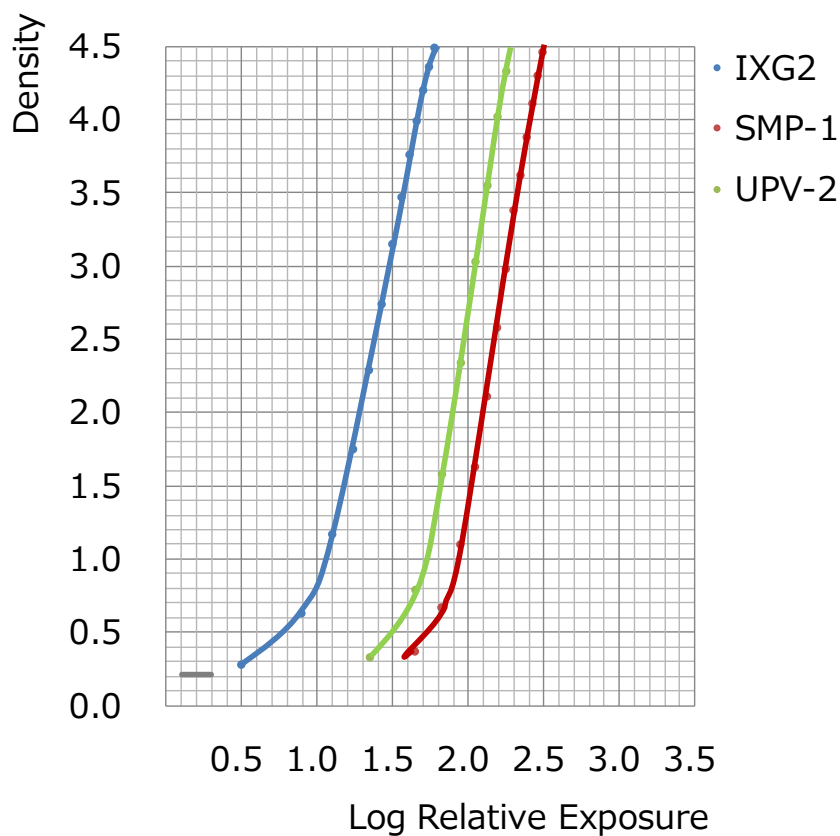


Exposure: X-ray 220kV

Processing: 23°C120seconds

Developer: SUPERDOL I

Processor: FIP7000



Base Used:

Polyester 0.175 mm thick, blue tinted base.

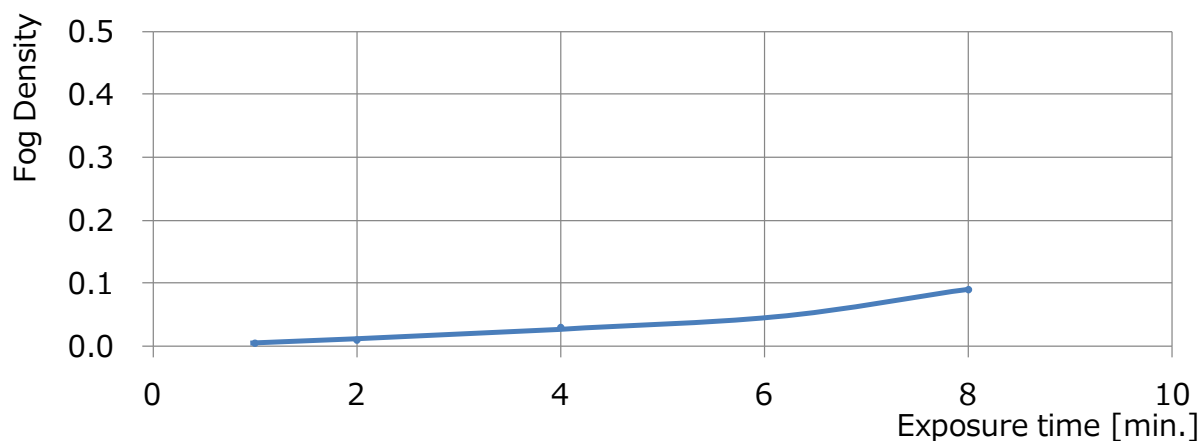
A polyester base is used having excellent strength and safety being suitable also for automatic processing.

Safelight:

This film should be handled under the Fujifilm Safelight Filter SLG 8U in a lamp with 15- or 20-watt bulb at a distance of not less than 1 meter.

Safelight Tolerances of IX600

(Fujifilm Safelight Filter SLG 8U, 100V 20-watt bulb, distance 1 meter.)



The fog density means the increasing fog value from the no safelight exposure.

Processing conditions:

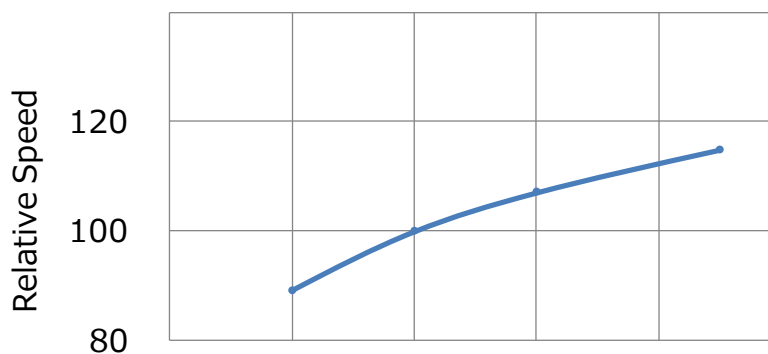
Manual Processing

Process	Chemical	Temperature	Time
Developing	Hi-RENDOL I	20°C (86°F)	5 minutes
Stop bath	(Acetic Acid 3% solution)	18 to 22 °C (64 to 72 °F)	30 seconds
Fixing	Hi-RENFIX I	18 to 22 °C (64 to 72 °F)	5 to 10 minutes
Washing	(Running water 2 to 4 L/min)	18 to 22 °C (64 to 72 °F)	50 minutes
Drying	(Washing Agent)	18 to 22 °C (64 to 72 °F)	30 seconds
	-	Ca. 60 °C (Ca. 122 °F)	-

Development Rate

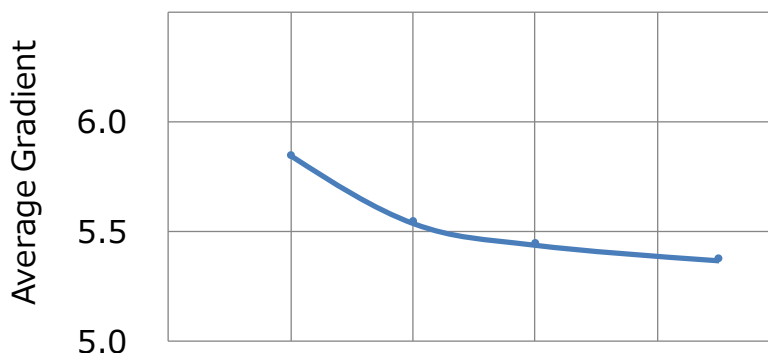
Relative Speed:

Relative value at a density of 2.0 above fog and base density on the value of 100 when developed for 5 minutes



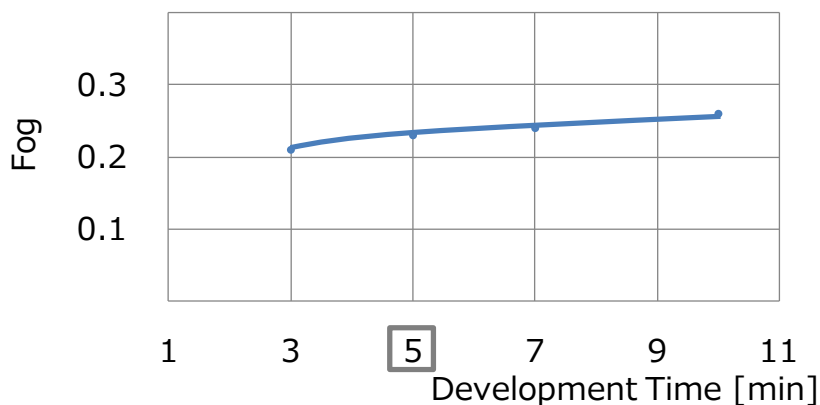
Average Gradient:

Gradient of line between the density points of 1.5 and 3.5 above fog and base density on the characteristic curve



Fog:

Fog and base density



Automatic Processing

Developer		Audel	
Development Temperature		26 °C (78 °F)	28 °C (82 °F)
Development Immersion Time		100 seconds	100 seconds
Fixing Temperature		31 °C (88 °F)	
Replenishment Rate for 8.5 × 30.5 cm, 4 films	Developer	about 65 ml	
	Fixer	about 200 ml	
Wash water Temperature		Less than 31 °C (88 °F)	
Drying Temperature		About 45 °C (113 °F)	