



Best in class for consistent high-quality non-destructive testing

FUJIFILM Industrial X-ray Film features revolutionary new film technology. Combining the latest emulsion-making science and computerized manufacturing processes it assures consistent batch-to-batch performance, optimum image quality and compatibility with all NDT chemistries and current brand tank/automatic processing conditions.

Its unique speed and grain technologies offer consistent high quality regardless of the material examined and the source of radiation employed.



Types and features

Film	Applications and Features	Relative Speed*				Class of Film**		
		X-rays 100 kV ⁽¹⁾	X-rays 200 kV ⁽²⁾	Ir-192 ⁽²⁾	Co-60 ⁽²⁾	ASTM E1815	EN 584-1	ISO 11699-1
IX50	- Electronic parts - Graphite epoxy composites An ultra-fine grain, high contrast ISO Class C3, ASTM Class I film having excellent sharpness and high discrimination characteristics. It is suitable for use with any low atomic number material where fine image detail is imperative. Its ultra-fine grain makes it useful in high energy, low subject contrast applications where high curie isotopes or high output x-ray machines permit its use. Wide exposure latitude has been demonstrated in high subject contrast applications. IX50 is generally used in direct exposure techniques or with lead screens.	35	30	30	30	I	C3	C3
IX80	- Welds – low to medium atomic number metals - Aircraft construction and maintenance - Graphite epoxy composites An extremely fine grain, high contrast ISO Class C4, ASTM Class I film suitable for detection of minute defects. It is applicable to the inspection of low atomic number materials with low kilovoltage x-ray sources as well as inspection of higher atomic number materials with high kilovoltage x-ray or gamma ray sources. Wide exposure latitude has been demonstrated in high subject contrast applications. IX80 is generally used in direct exposure techniques or with lead screens.	55	55	55	55	I	C4	C4

* Speed as compared to that of type IX100 used as a standard 100 **Automatic Film Processing (1) without screens (2) with lead screens



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 **Automatic Film Processing (1) without screens (2) with lead screens

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IX100	- Welds – medium to higher atomic number metals. - Castings – medium to higher atomic number metals. A very fine grain, high contrast ISO Class C5, ASTM Class II film suitable for the inspection of light metals with low activity radiation sources and for inspection of thick, higher density specimens with high kilovoltage x-ray or gamma ray sources. Wide exposure latitude has been demonstrated in high contrast subject applications. Although IX100 is generally used in direct exposure techniques or with lead screens, it is suitable for use with fluorescent or fluorometallic screens.	100	100	100	100	II	C5	C5
IX150	- Heavy, multi-thick steel parts. - Low curie isotope and low-output x-ray exposures. A high speed, fine grain, high contrast ISO Class C6, ASTM Class III film suitable for inspection of a large variety of specimens with low-to-high kilovoltage x-ray and gamma ray sources. It is particularly useful when gamma ray sources of high activity are unavailable or when very thick specimens are to be inspected. It is also useful in x-ray diffraction work. IX150 is used in direct exposure techniques or with lead screens.	170	170	170	170	III	C6	C6

Roll and Roll-Pack Film

Roll film is precut in 70mm, 10", 14" and 17" standard widths. Blue tint and sharper images make these films ideal for the most critical radiographic applications. Supplied in a convenient dispenser box, Roll-Pack is available with or without lead screens (Envelopak Roll and Envelopak + Pb Roll). The sealed and flushed edge is cut at any desired length for subjects requiring special film sizes. Darkroom loading Roll Film is also available.

Automatic X-Ray



AUTOMATIC X-RAY is an all-liquid chemistry in concentrated form for the processing of industrial X-ray films in automatic roller transport processors.

AUTOMATIC X-RAY Developer & Replenisher are used to prepare either a Developer working tank solution in conjunction with a Starter (sold separately), or a replenisher solution to maintain the activity of the tank solution as films are being processed through the machine. X-ray Fixer & Replenisher are the companion product of AUTOMATIC X-RAY Developer.

No starter addition is necessary. Once diluted, the X-ray fixer can be used as a machine tank solution or as a replenisher. XD-25 Developer is a single all-liquid concentrate designed for processing a wide range of radical X-ray emulsions under normal manual processing conditions. XF-25 Fixer is recommended as the companion product.