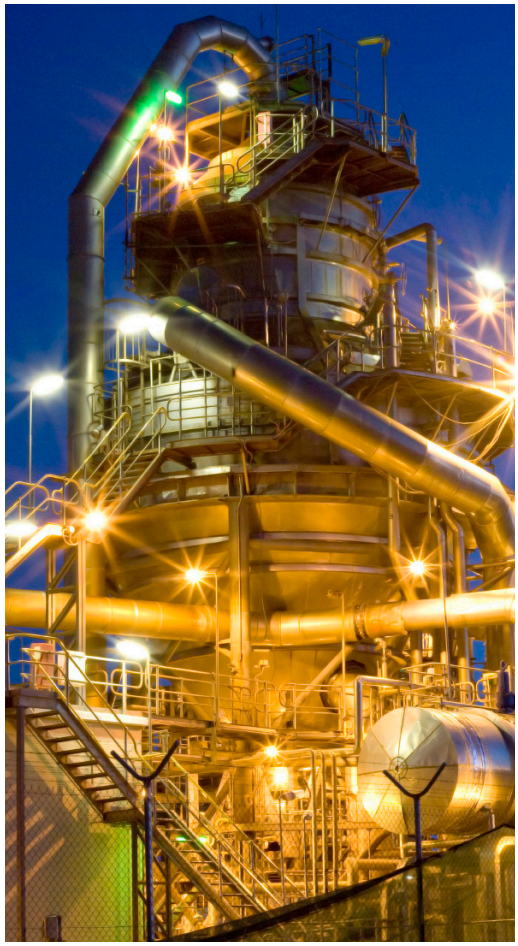
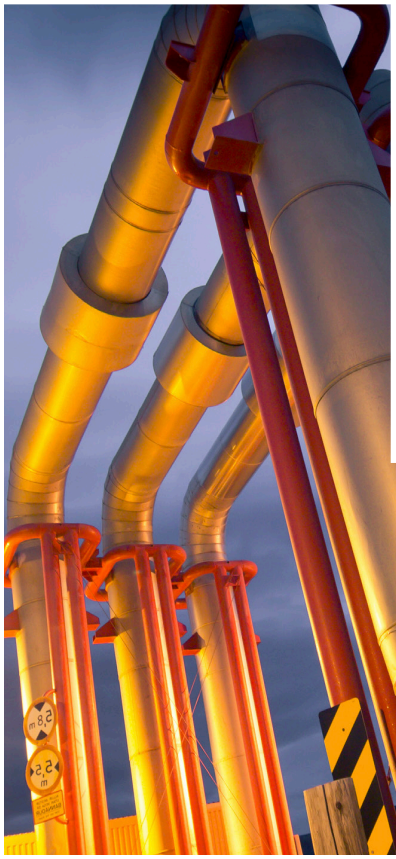
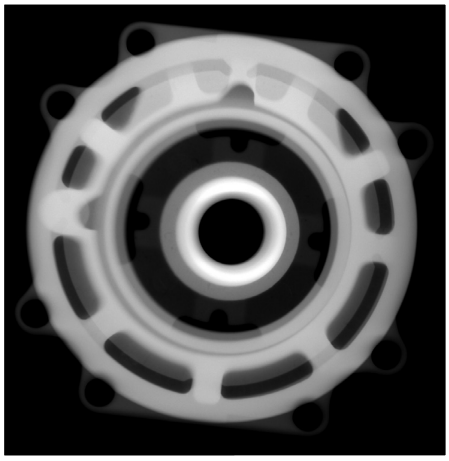
Carestream INDUSTREX Film

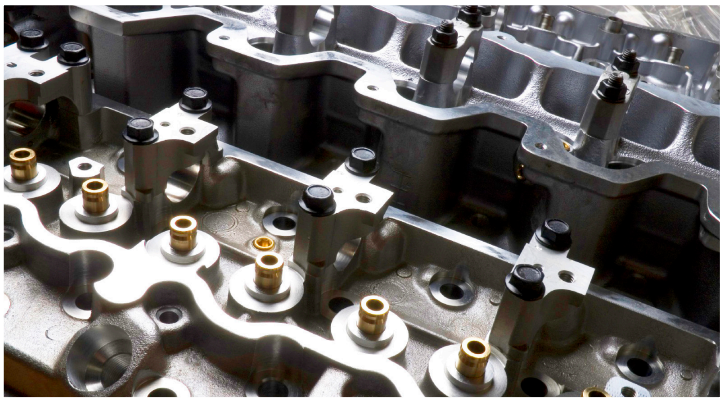
For Non-Destructive Testing

WHEN CLARITY IS CRITICAL









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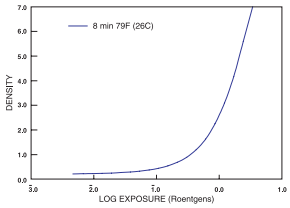
INDUSTREX MX125 Film



Exposure: 220 kV Direct X-rays with lead screens
Processing: INDUSTREX Processor and INDUSTREX Chemicals
Densitometry: Diffuse Visual

Simply put, INDUSTREX MX125 Film is tough. Tough as nails. Its static resistance is unparalleled in the industry, and its heat resistance is remarkable. The film is extremely durable; it can withstand the toughest handling (and even darkroom practices). It can also survive high humidity, and it's much less susceptible to handling artifacts than most films.

The Basics

MX125 Film incorporates Carestream's patented T-GRAIN Emulsion technology. This medium-speed film offers very fine grain and very high contrast. It has excellent sensitivity, so it's perfect for critical radiography—especially with high energy. You can use it with direct x-rays or with lead foil screens. This film is classified as ASTM E 1815 Class I and EN ISO 11699-1 Class III.

Processing Options

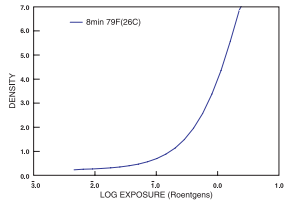
MX125 Film can be processed manually or automatically in a range of processing cycles. Notice: Observe precautionary information on product labels and Material Safety Data Sheets. Develop with rack and tank, using properly replenished solutions.

Idea For

Aircraft inspection, Aero-engines, Assemblies, Electrical components, Castings, Composites (fibre-reinforced), Forensics, Munitions, Bomb Disposal, Nuclear, Paintings/Sculptures, Pipelines, Welded Fabrication

INDUSTREX Processors/Cycles	Base + Fog	Contrast[1]
M43ic—8 min 79°F (26°C)	0.20	5.15
M43ic—5 min 86°F (30°C)	0.20	5.05

INDUSTREX T200 Film



Exposure: 220 kV Direct X-rays with lead screens
Processing: INDUSTREX Processor and INDUSTREX Chemicals
Densitometry: Diffuse Visual

INDUSTREX T200 Film is recommended for critical imaging applications, since it can be used in multiple film loads to provide you with an extended imaging range. Best of all, it incorporates Carestream Health's patented T-GRAIN Emulsion technology.

The Basics

T200 Film is a medium-speed, high-contrast film with very fine grain. This Film is an EN ISO 11699-1 Class 4 film and our fastest ASTM E 1815 Class I film. T200 Film can withstand high temperatures, and it's less susceptible to handling and static artifacts. It's also versatile—you can use it with direct x-rays or with lead foil screens.

Processing Options

T200 Film can be processed manually or automatically in a range of processing cycles. Notice: Observe precautionary information on product labels and Material Safety Data Sheets. Develop with rack and tank, using properly replenished solutions.

Idea For

Aircraft inspection, Aero-engines, Assemblies, Electrical components, Castings, Composites (fibre-reinforced), Forensics, Munitions, Bomb Disposal, Nuclear, Paintings/Sculptures, Pipelines, Welded Fabrication

INDUSTREX Processors/Cycles	Base + Fog	Contrast[1]
M43ic—8 min 79°F (26°C)	0.20	4.7
M43ic—5 min 86°F (30°C)	0.20	4.7

[1]Contrast calculated between net densities of 1.5 and 3.5.

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INDUSTREX Films for Industrial X-ray Use - Product Guide[1]

INDUSTREX Film / Product Code	System Class[2]		Notched	Replaces		Available Formats (code)							Spectral Sensitivity	Safelight Filter	AUTOMATIC Processing Chemicals[3] Developer / Fixer	Recommended Starting Points
						Sheets				Rolls						
	ASTM E1815	ISO 11699-1 EN 1SO 11699-1		AGFA	FUJI	Non-interleaved (1)	Interleaved (5)	READY-PACK II (2)	PB Contactpak (7)	NIF Rolls (bulk) (359)	Lead Pack (382)	Ready Pack (381)				
DR50 / 6536	Special	C1	✓	D2	IX25	✓							X-ray and visible blue light	(Red) 1, 2 or GBX-2	**DEVELOPER** INDUSTREX Single Part Developer Replenisher, mixed 1:3 w/H_20 **Replenishment Rate:** 665 mL/m^2 **FIXER** INDUSTREX LO Fixer and Replenisher, mixed 1:3 w/H_20 **Replenishment Rate:** [4] 1200 mL/m^2	**AUTOMATIC** 8 minute cycle Developer Time and Temperature: 100 seconds @ 26° C (79° F) 5 minute cycle Development Time and Temperature: 60 seconds @ 30° C (86° F) **MANUAL**[6] Development Time and Temperature: 4 minutes @ 22° C (72° F)
M100 / 5532	Class 1	C2	✓	D3	IX50	✓		✓	✓	✓	✓	✓				
MX125 / 4748	Class 1	C3		D4	IX50	✓	✓	✓	✓	✓	✓	✓				
T200 / 6537	Class 1	C4	✓	D5	IX80	✓	✓			✓	✓					
AA400 / 5533	Class 2	C5	✓	D7	IX100	✓	✓	✓	✓	✓	✓	✓				
HS800[5]/5747	--	--	✓	D8/ F8	IX150	✓			✓	✓						

[1] Please refer to the NDT Resources at www.carestream.com for film and chemistry technical data.

[2] Classification applies to INDUSTREX films processed in INDUSTREX chemicals, not the other manufacturer's product they are replacing.

[4] For optimum archivability, such as required for nuclear applications, a 10 % increase in fixer replenishment rate may be desirable. For more information, consult TI-6K7080 INDUSTREX Films Technical Data.

[5] HS800 displays high speed and contrast throughout an extended range of optical densities when used with fluorescent and fluorometallic screens. HS800 is recommended for use with LANEX Fast Screens, CAT No. 116 0688.

[6] Eliminate guesswork in determining the proper exposure and get more consistent results by using the INDUSTREX Ir192 Film Exposure Calculator available through your regional Carestream NDT sales manager.

[3] **Automatic**

INDUSTREX Single Part Developer Replenisher to make 40L, CAT No. 531 5288
INDUSTREX Single Part Developer Starter to make 19L, CAT No. 835 1413
INDUSTREX LO Fixer and Replenisher to make 40L, CAT No. 515 9082

Manual

INDUSTREX Manual Developer Kit to make 40L, CAT No. 105 7009
- Kit contains 2 five-liter bottles of developer, 2 one-liter bottles of developer and 2 bottles of stop bath.

INDUSTREX Manual Fixer Kit to make 40L, CAT No. 105 7017
- Kit contains 2 five-liter bottles of fixer, 2 one-liter bottles of fixer and 2 bottles of rinse solution.

Sold separately as
INDUSTREX Manual Developer to make 40L, CAT No. 532 0635
INDUSTREX Manual Fixer to make 40L, Cat No. 532 0643
INDUSTREX Manual Stop Bath to make 40L, CAT No. 105 4873
INDUSTREX Manual Rinse Solution to make 40L, CAT No. 105 7025

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Created in the USA
P/N 9J8961

Carestream Health
150 Verona Street
Rochester, NY 14608 USA

2015-10-02

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