CarestreamNDT

INDUSTREX Film for Non-Destructive Testing



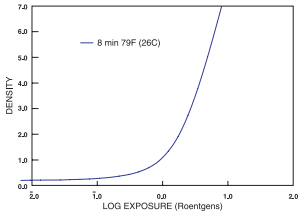
Our reliable line of film products work under the most trying conditions and provides customers consistent, predictable results every time. With the support of world-leading imaging experts and worldwide product availability, INDUSTREX technology is your best choice within the most demanding test environments.



Consistent Results for Outstanding Quality

INDUSTREX DR50 Film





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

INDUSTREX DR50 Film is specifically designed for use in multi-film techniques in your demanding radiographic environment. With both high-voltage x-rays and gamma rays, DR50 will deliver consistently high contrast, very fine granularity, and superior sensitivity to meet your testing needs. It incorporates Carestream's T-GRAIN Emulsion technology for superb results with direct x-rays or lead foil screens.

The Basics

DR50 Film is an extremely durable slow-speed film with ultra fine grain. It withstands high temperature and high humidity, and resists both handling and static artifacts. This film is classified as ASTM E 1815 Class Special and EN ISO 11699-1 Class 1.

Processing Options

DR50 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.

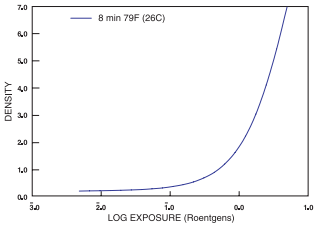
Ideal For

Aircraft inspection, Assemblies, Castings, Electrical Components, Composite (fibre-reinforced), Forensics, Munitions, Bomb Disposal, Nuclear Applications, Welded Fabrication.

INDUSTREX Processors/Cycles	Base + Fog[1]	Contrast[2]
M43ic – 8 min 79°F (26°C)	0.19	5.4
M43ic – 5 min 86°F (30°C)	0.20	5.55

INDUSTREX M100 Film





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

INDUSTREX M100 Film gives you outstanding sharpness – in fact, we've set the standard in this industry. The film's excellent sensitivity and low speed make it the perfect choice for critical inspections of a wide range of materials. You'll have confidence that you'll find what you're looking for – whether it's a pipe weld, an aerospace engine, or a sculpture that you're imaging.

The Basics

M100 Film is an ASTM E 1815 Class I and EN ISO 11699-1 Class 2 film that offers ultra fine grain with extremely high contrast and definition. And it's versatile – you can use it with direct x-rays or with lead foil screens.

Processing Options

M100 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.

Ideal For

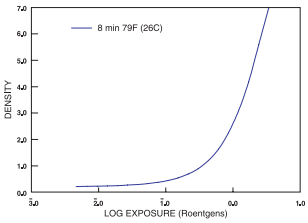
Aircraft inspection, Aero-engines, Assemblies, Electrical Components, Castings, Composites (fibre-reinforced), Forensics, Munitions, Bomb Disposal, Nuclear, Paintings/Sculptures, Pipelines, Welded Fabrication.

INDUSTREX Processors/Cycles	Base + Fog[1]	Contrast[2]
M43ic – 8 min 79°F (26°C)	0.19	5.4
M43ic – 5 min 86°F (30°C)	0.19	5.25

[1]At the time of coating, actual performance may vary based on film lot, storage history, processing conditions and the age of the film.
[2]Contrast calculated between net densities of 1.5 and 3.5.

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 T-GRAIN Emulsion technology. This medium-speed film offers ultra 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 3.

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.

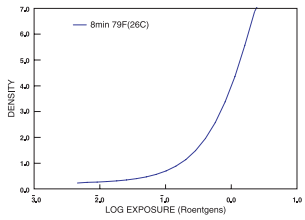
Ideal For

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[1]	Contrast[2]
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's T-GRAIN Emulsion technology.

The Basics

T200 Film is a medium-speed, high-contrast film with ultra 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.

Ideal For

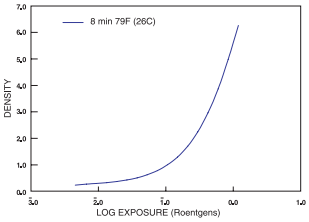
Aircraft inspection, Aero-engines, Assemblies, Electrical components, Castings, Composites (fibre-reinforced), Forensics, Munitions, Bomb Disposal, Nuclear, Paintings/Sculptures, Pipelines, Welded Fabrication.

INDUSTREX Processors/Cycles	Base + Fog[1]	Contrast[2]
M43ic – 8 min 79°F (26°C)	0.20	4.7
M43ic – 5 min 86°F (30°C)	0.20	4.7

[1]At the time of coating, actual performance may vary based on film lot, storage history, processing conditions and the age of the film.
[2]Contrast calculated between net densities of 1.5 and 3.5.

INDUSTREX AA400 Film





Exposure: 220 kV Direct X-rays with lead screens

Processing: INDUSTREX Processor and INDUSTREX Chemicals

Densitometry: Diffuse Visual

[1]At the time of coating, actual performance may vary based on film lot, storage history, processing conditions and the age of the film.
[2]Contrast calculated between net densities of 1.5 and 3.5.

INDUSTREX AA400 Film is extremely versatile, which makes it a great solution for many industrial applications. You can use it in multiple-film radiography and in single-film techniques – and with direct x-rays or with lead foil screens. Best of all, AA400 Film incorporates Carestream's T-GRAIN Emulsion technology.

The Basics

AA400 Film is an ASTM E 1815 Class II and EN ISO 11699-1 Class 5 film that offers high speed, high contrast and gives you a fine-grain image. This film offers incredibly robust handling characteristics. It can withstand high temperatures and humidity, and it is resistant to static artifacts – so you get the image you need, whatever the conditions you're working under.

Processing Options

AA400 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.

Ideal For

Aircraft inspection, Aero-engines, Archeological artifacts, Assemblies, Castings, Concrete, Electrical components, Forensics, Forestry, Munitions, Bomb Disposal, Nuclear, Pipelines, Tires, Welded Fabrication.

INDUSTREX Processors/Cycles	Base + Fog[1]	Contrast[2]
M43ic – 8 min 79°F (26°C)	0.20	4.7
M43ic – 5 min 86°F (30°C)	0.20	4.65

© Carestream Health, Inc., 2020. CARESTREAM and INDUSTREX are trademarks of Carestream Health. CAT 7200 602 08/26