Issued 2017-02

Medical X-ray Blue / MXB Film¹

Medical X-ray Blue / MXB Film is a full-speed, blue-sensitive general radiography film that is intended for use with blue light emitting intensifying screens such as X-OMATIC Regular. It is coated on a blue, approximately 0.2 mm (7-mil) polyester support, with good static protection. Medical X-ray Blue / MXB Film features T-grain emulsion technology that reduces the amount of screen-light crossover, resulting in excellent image sharpness. It is designed for standard high-throughput processing cycles. It may also be processed manually.

Features include:

- o Enhanced blue image tone delivers optimal viewing characteristics and reduces eye fatigue
- Manual or automatic processing in standard cycle
- Robust processing tolerance with excellent speed and contrast stability under variable processing conditions helping to ensure consistent results

Sensitometric and Photographic Properties:

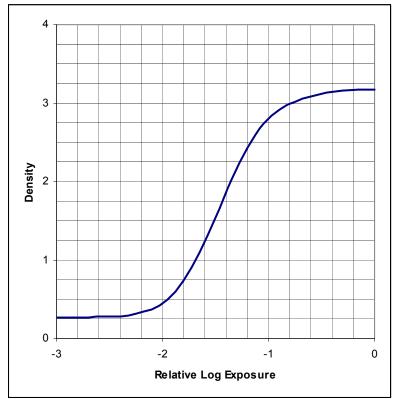
Screen	System Speed	
X-OMATIC	200	
Regular		

Sensitometric Parameters:

Speed	Measured at 1.0 OD above Gross Fog
Contrast	Measured as slope of the straight line portion of the sensitometric curve, and computed as the value for the rise for any three consecutive steps.
Gross	Density of film base plus
Fog	processing fog.

Medical X-ray Blue / MXB Film

1/50 Second Simulated Blue Screen Exposure; 35 °C (95 °F); 90 Second Cycle; RP X-OMAT Chemicals: X-OMAT 5000 RA Processor; Diffuse Visual Densitometry



Notice: The data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Carestream Health, Inc. The company reserves the right to change and improve product characteristics at any time.

¹ EXCEPTION: refer to CHSP-8694 for cat numbers 1522200, 1818236, 8225526, 1728690, 8205155

Automatic Processing Recommendations:

In general, processing is recommended in X-OMAT and RP X-OMAT Processors using RP X-OMAT, X-OMAT EX II or X-OMAT MX Developer and Replenisher and RP X-OMAT LO or X-OMAT MX Fixer and Replenisher.

Influence of developer temperature in case of automatic processing

-2 °C	Ref	+2 °C
-0.01	Base fog	+0.01
-15 %	Sensitivity	+7 %
+2%	Contrast	+2 %

Replenishment Rate Recommendations for X-OMAT and RP X-OMAT Processors (Replenishment by length)

Replenishment Rates (ml per 35 x 43 cm) Developer Fixer	
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Please refer to Service Bulletin No. 30, available on the Carestream website or upon request, for additional processing recommendations.

Recommended Starter Volumes

Developer	Starter (Added to processor developer tank)
RP, EX II,	89 ml (3 fl. Oz.) per 3.78
MX	Litres (1 gallon)

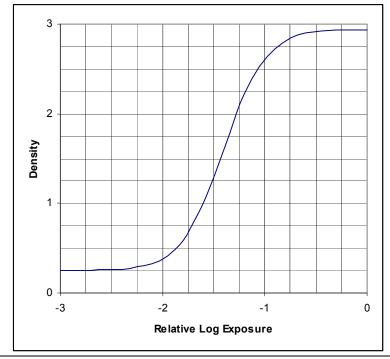
Influence of developer temperature in case of manual processing

The developing time must be adjusted as per the following the table:

Temperature °C :	20	22	24.5	26.5
Developer Time	8	7	5	4
(minutes)				

Medical X-ray Blue / MXB Film

1/50 Second Simulated Blue Screen Exposure GBX Chemicals, 7 minutes, 22 °C (72 °F), Manual Process Diffuse Visual Densitometry



Sensitometric Quality Control

(required for Germany and Switzerland)

The film was tested with a calibrated light sensitometer and processed in a X-OMAT 5000 RA processor, filled with fresh RP X-OMAT

Developer and RP X-OMAT LO Fixer.

Characteristics are measured according to DIN 6868-55

LE = 1.56 +/- 0.09 LK = 2.68 +/- 11 %

EI = 0.97 step = 10 KI = 1.86 step = 14 - 10

Note: the results obtained are dependent on exposure and processing conditions.

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Storage and Handling

Storage -

Unexposed:



10-24 °C (50-75 °F)

Do not refrigerate or freeze as this can cause condensation to occur.



30-50 %RH



Protect from heat and radioactive sources. Film is to be properly shielded from x-rays, gamma rays, or penetrating radiation.

Exposed: Keep cool, dry, and properly shielded from penetrating radiation. Process as

soon as possible.

Processed: 16-27 °C (60-80 °F), 30-50 %RH

Handling -

Hands must be clean, dry and free of lotions, etc. Film should be handled carefully by the edges to avoid physical strains such as pressure, creasing, or buckling. Luminous watches, cell phone and darkroom light leaks should be avoided.



Do not re-use. Film is a single use medical device.

Safelight Filter



Use a Ruby Red Safelight Filter, such as GBX-2, with a frosted 15-watt bulb or a LED Safelight located at least

1.22 metres (48 inches) from the film.

Latensification: Safelight exposure after primary x-ray exposure.

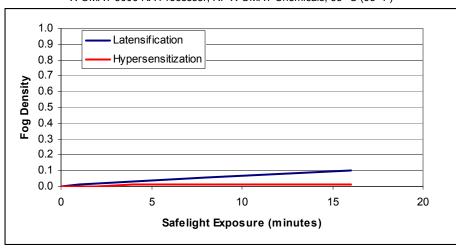
Hypersensitization: Safelight exposure prior to primary x-ray exposure.

C EC REP

Carestream Health France
1, rue Galilée
93192 NOISY-LE-GRAND CEDEX
FRANCE

Medical X-ray Blue / MXB Film

GBX-2 Safelight Filter, 15-watt bulb / 1.22 metres (48 inches) X-OMAT 5000 RA Processor, RP X-OMAT Chemicals, 35 °C (95 °F)



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Carestream Health, Inc. – 150 Verona Street - Rochester, NY, USA 14608

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