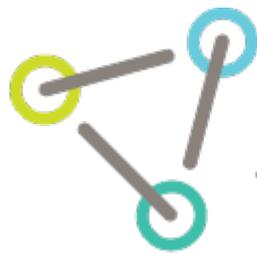


ASHLAND



Ashland™
always solving

peo MEDICAL

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Ashland



Ashland est un leader mondial dans le domaine des matériaux de spécialité, offrant des solutions innovantes qui améliorent la sécurité, la précision et les résultats pour les patients dans diverses disciplines médicales. Son portefeuille soutient les prestataires de soins de santé dans les domaines de la radiothérapie, de l'imagerie diagnostique, du traitement des plaies et de la médecine régénérative.



Dans le domaine médical, Ashland propose une large gamme de matériaux spécialisés pour la radio-oncologie, l'imagerie diagnostique, le traitement des plaies et la médecine régénérative. En radiothérapie, leurs films de dosimétrie Gafchromic™ et leur logiciel FilmQA Pro™ offrent aux cliniciens des outils fiables pour la vérification des doses et l'assurance qualité, permettant un suivi en temps réel et une administration précise des traitements. Pour l'imagerie diagnostique, Ashland fournit des films d'assurance qualité en radiologie qui aident à l'étalonnage des équipements et garantissent une qualité d'image constante, tandis que leurs adhésifs et revêtements améliorent les performances des produits médicaux à usage unique tels que les pansements et les bandages. En médecine régénérative, les polymères biorésorbables Viatel™ d'Ashland sont utilisés dans le développement de dispositifs médicaux et d'échafaudages dégradables, fournissant un support structurel temporaire qui est absorbé en toute sécurité par le corps - facilitant la guérison des tissus sans qu'il soit nécessaire de les retirer.

En intégrant une chimie avancée à un engagement en faveur de l'innovation, Ashland fournit des solutions fiables et efficaces qui soutiennent la prise de décision critique et améliorent les soins aux patients dans les environnements médicaux.

ANALYSE DE LOGICIELS

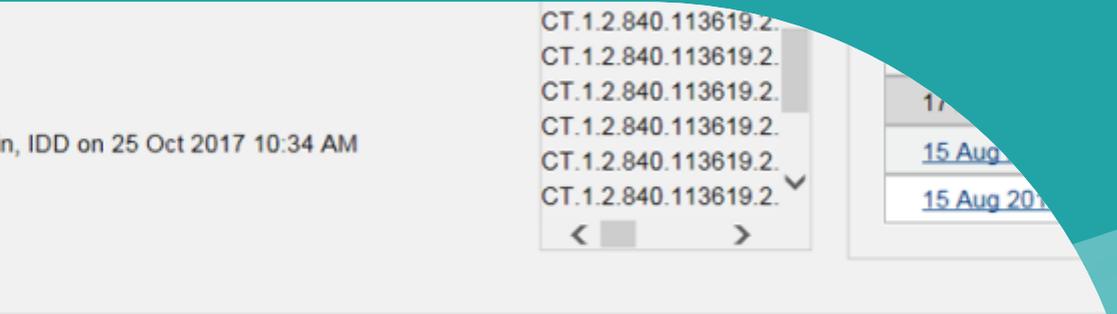


Image Registration

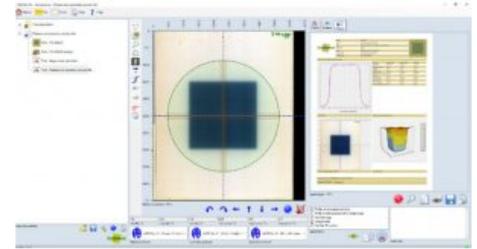
	Measurement	Baseline	Difference	Status	Tolerances
on	0.31	0.26	-0.05	✓ Passed	
	0.69	0.69	0.00	✓ Passed	
	-2.40	-2.80	-0.41	✓ Passed	
	1.13	0.98	-0.15	✓ Passed	



FilmQA Pro™ Software version 7 - Ashland

a sophisticated, quantitative analysis tool for Gafchromic™ Film

FilmQA Pro™ software is a sophisticated, quantitative analysis tool specifically designed to simplify and streamline the intensity-modulated radiation therapy quality assurance (IMRT QA). Our software is also effective for QA of SRS, SBRT and VMAT procedures. It allows you to scan or open images of exposed film and calculate the optimized dose maps.



FilmQA Pro™ software uses proprietary multi-channel dosimetry which eliminates or mitigates film and scanner artifacts by detecting whether errors are being made during scanning. In addition, the software also has the one-scan analysis feature which combines calibration and plan verification in a single scan. The one-scan protocol requires only the patient film, a reference patch, and an unexposed patch. This protocol eliminates error sources such as interscan variability, which enables you to reduce errors to within 2 percent.

With FilmQA Pro™ software, you can get your results in minutes, post-exposure growth no longer is an issue and there is no waiting overnight for changes in the film to diminish. You can do an analysis any time you want, even at a moment's notice. The software delivers gamma passing rates ≥ 95 percent at 2 percent at 2 mm instead of using 3 percent at 3 mm.

key features and benefits

- lateral scan correction: apply a correction to compensation for lateral artifacts that can show in the scan
- new user friendly interface with a quick start menu
- one-scan protocol: fast and efficient method to achieve dose accuracy within 2%
- triple-channel dosimetry: use three color channels to optimize accuracy of dose calculations
- accurately calibrate: an entire lot with just four strips of film using our film-specific mathematical function
- quick-start screen: easily access the module you need at start-up
- dose error recognition: ability to identify accuracy of delivered dose
- superior resolution: get 100 percent of the picture from millions of measurements instead of just 0.1 percent
- no angular dependence: shoot the film from all angles, an entire plan on a single Gafchromic™ film, and validate the plan in the same way that the patient receives it

FilmQA Pro™ Software carries a CE Mark

DÉTECTEURS & DIVERS



← **Back to partner**



Radiation Safety > Détecteurs & divers

FILM SENSITIVITY

The film's response depends on the output spectrum of the x-ray generator, or the type and strength of the isotopes. But it also depends on the thickness and composition of the object that you are imaging.

XR-SP2 BENEFITS

- Stand-alone imaging tool
- No screens required
- No cassettes required
- Instantly self-developing
- Resolution >10 microns
- Water and scratch resistant
- Usable in daylight
- Can withstand temperatures from 4,5 °C to 60°C (40°F to 140°F)
- Stable in real world environment
- The shelf life is over a year

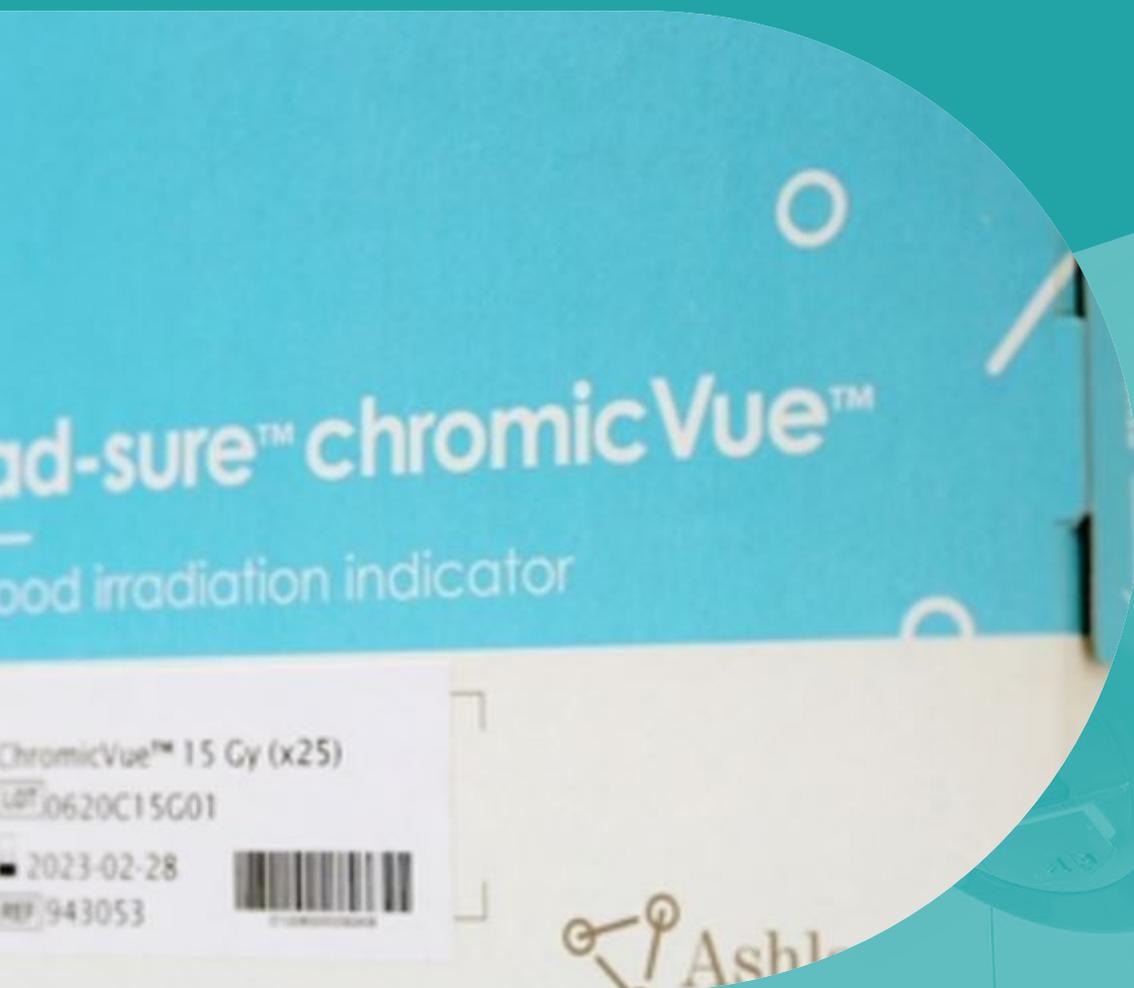
This film comes in boxes of 10 pc. and it's available in two sizes:

- 20,32 cm x 25,4 cm (8" x 10")
- 25,4 cm x 30,48 cm (10" x 12")

For more information on Ashland radiology film...

Go here!

INDICATEURS D'IRRADIATION DU SANG



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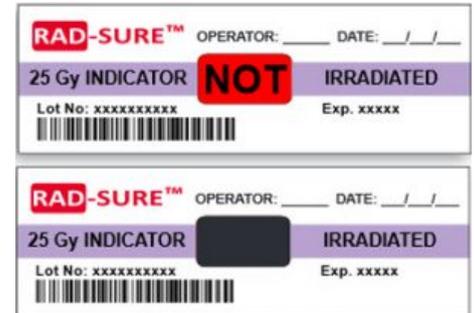
Radiothérapie > Indicateurs d'irradiation du sang

Rad-Sure™ Blood Irradiation Indicators

chemistry: radiochromic film

look for the NOT

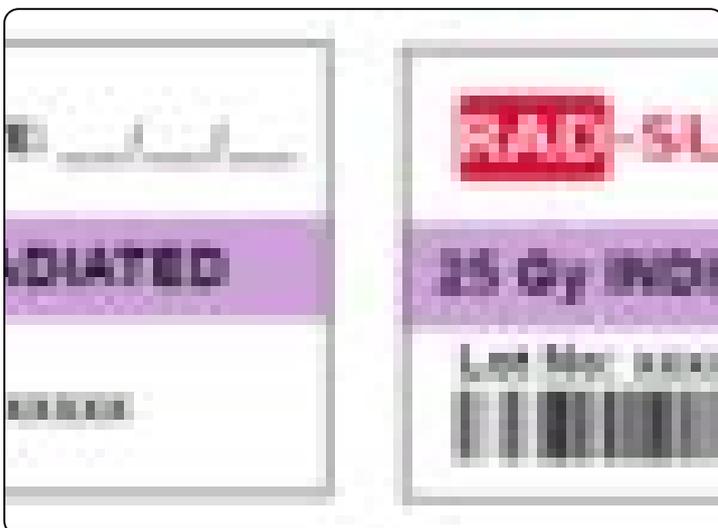
Rad-Sure™ is a blood irradiation indicator that provides positive visual verification of irradiation at the minimum specified dose. Rad-Sure™ is available in two types: Gamma and X-Ray. Gamma is compatible with Cesium-137 or Cobalt-60 radiation sources and X-Ray is compatible with x-ray irradiators that utilize x-rays generated from 160kVp sources that are filtered through 0.38 mm of copper, or 150kVp sources that are filtered through 1 mm of aluminum. Manufactured from Gafchromic™ film, the world's highest resolution dosimeter, Rad-Sure is the standard for blood irradiation indicators for over 25 years.

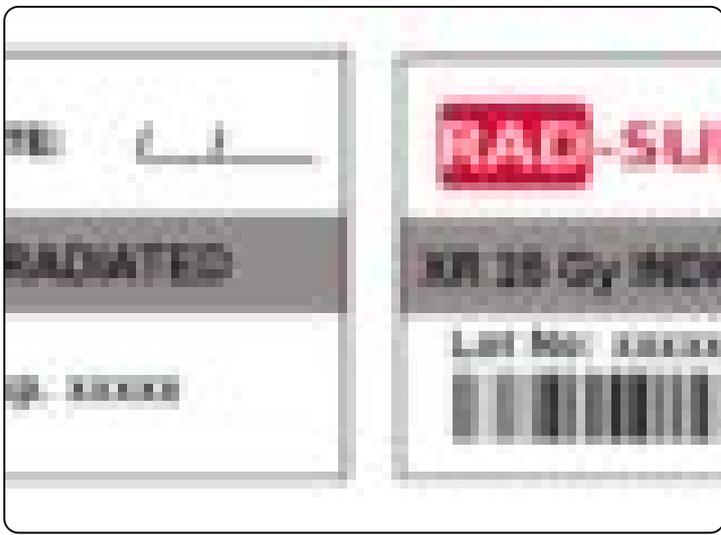


When attached to blood products, Rad-Sure™ blood irradiation indicators show whether the blood products have been irradiated. Before a blood product and its attached indicator are irradiated, the indicator reads “NOT IRRADIATED”. After the blood product and its attached indicator are irradiated, the word “NOT” is obscured and the indicator reads “IRRADIATED”.

Product Features:

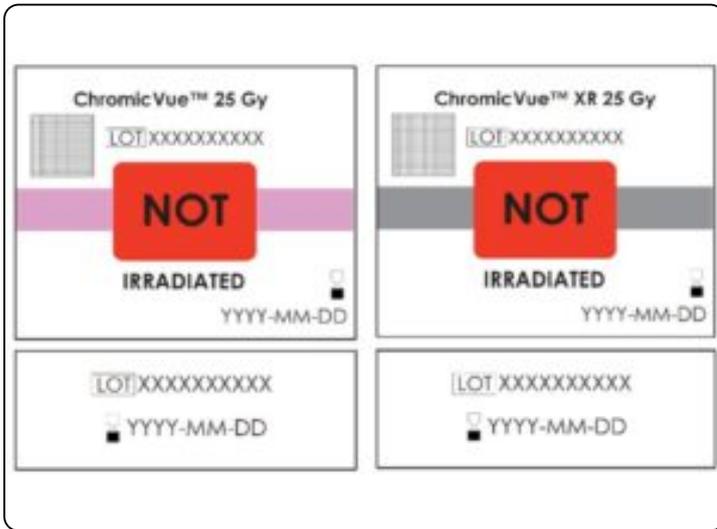
- indicators can now be stored at room temperature!
- meets cGMP requirements
- easy to use: just peel, stick, irradiate, and read!
- ISBT 128 bar-coded lot numbers
- minimum dose of 15 Gy or 25 Gy available
- Rad-Sure™ indicators adhere to AABB standards and hold the AABB seal of compliance







Radiothérapie > Indicateurs d'irradiation du sang

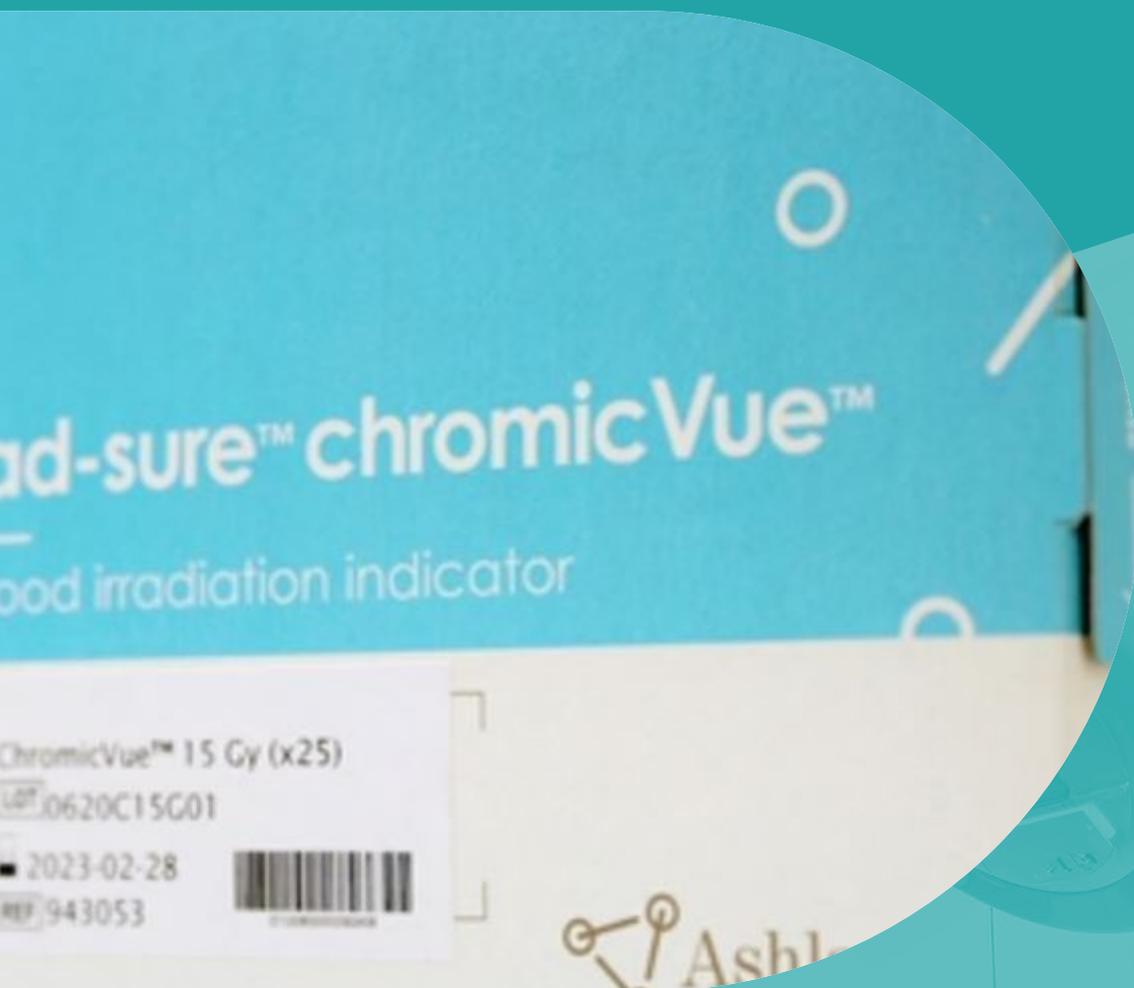


dependable features:

- film-based indicator - made with highly accurate Gafchromic™ film used in radiation oncology centers around the world
- less subjective - the product has been properly irradiated when the “NOT” is completely obscured
- indicators can be stored at room temperature
- Color-blind friendly - no need to match colors
- 30 years of reliable film technology

Feature	Benefit
compact format	<ul style="list-style-type: none">• optimized for any blood unit including neonatal• efficient size allows for more space on table
1D barcode	<ul style="list-style-type: none">• 2D barcode reads out if unit expirations date• linear 1D barcode still readable for up to 10 years
flat box	<ul style="list-style-type: none">• facilitates dispensing into all vials• no flip-over necessary - indicator remains protected• sustainable packaging - boxes are recycled• smaller box format allows for reduced storage
indicator per box	<ul style="list-style-type: none">• additional 10 indicators per box
full expiry date control	<ul style="list-style-type: none">• for optional use in oncology and general

INDICATEURS D'IRRADIATION DU SANG



← Back to partner



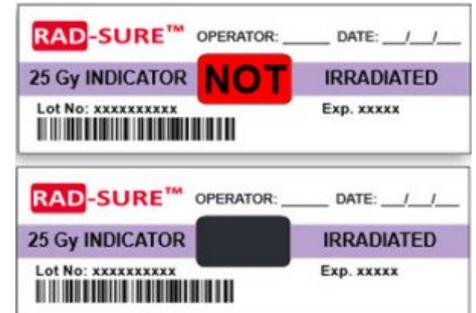
Radiothérapie > Indicateurs d'irradiation du sang

Rad-Sure™ Blood Irradiation Indicators

chemistry: radiochromic film

look for the NOT

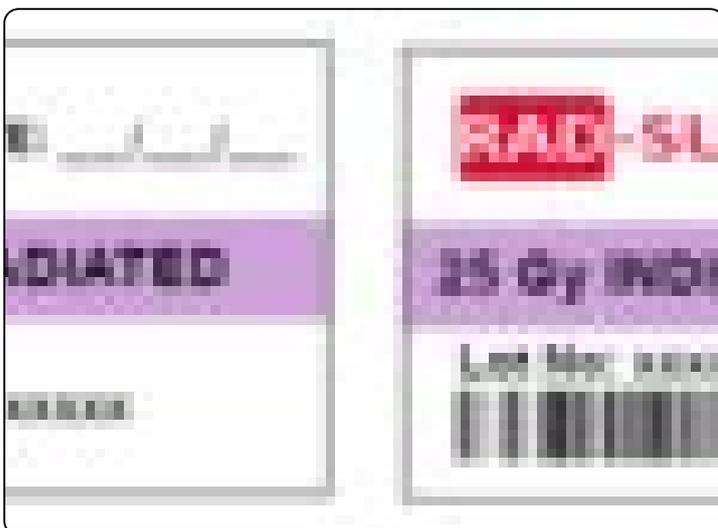
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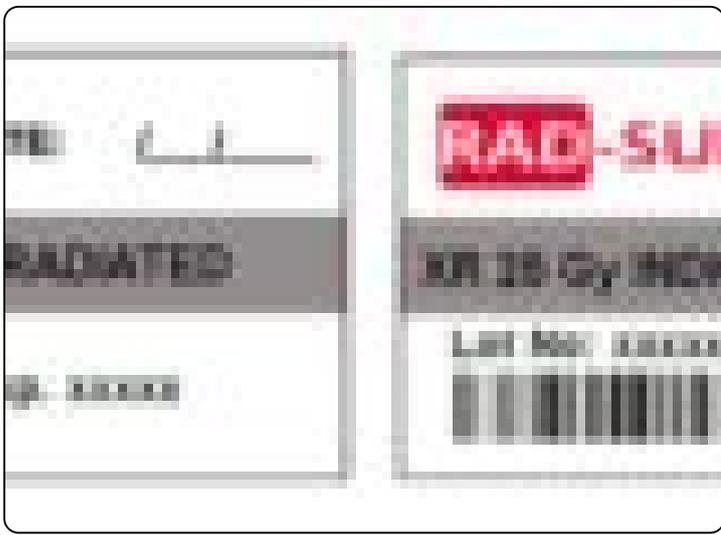


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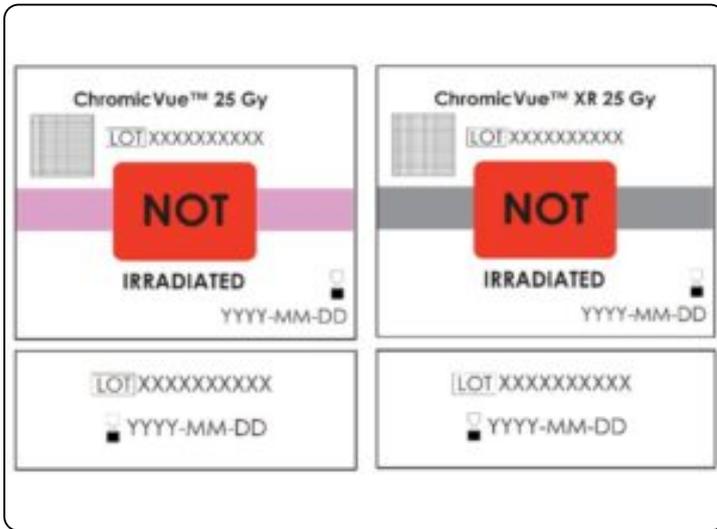
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Radiothérapie > Indicateurs d'irradiation du sang



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- indicators can be stored at room temperature
- Color-blind friendly - no need to match colors
- 30 years of reliable film technology

Feature	Benefit
compact format	<ul style="list-style-type: none"> • optimized for any blood unit including neonatal • efficient size allows for more space on table
2D barcode	<ul style="list-style-type: none"> • 2D barcode reads fast & with expansion data • linear & 1D barcode still available for use
flat box	<ul style="list-style-type: none"> • flexible (dispensed) only at a time • no flip necessary - indicator remains protected • sustainable packaging - boxes are recycled • smaller box format allows for reduced storage
indicator per box	<ul style="list-style-type: none"> • additional 10 indicators per box
full expiry date control	<ul style="list-style-type: none"> • for optional use in oncology and general

AQ FILM GAFCHROMIQUE

GafChromic
RTQA

QA+

Quality assurance plus:

- instant results
- very easy to use
- size the film to your exact requirement and save

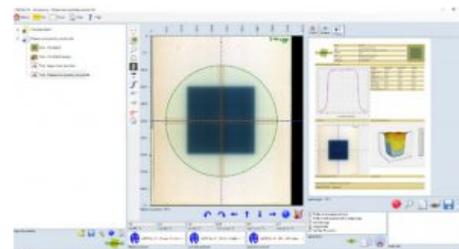
SHEETS, EACH 10" X 10"



FilmQA Pro™ Software version 7 - Ashland

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key features and benefits

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- new user friendly interface with a quick start menu
- one-scan protocol: fast and efficient method to achieve dose accuracy within 2%
- triple-channel dosimetry: use three color channels to optimize accuracy of dose calculations
- accurately calibrate: an entire lot with just four strips of film using our film-specific mathematical function
- quick-start screen: easily access the module you need at start-up
- dose error recognition: ability to identify accuracy of delivered dose
- superior resolution: get 100 percent of the picture from millions of measurements instead of just 0.1 percent
- no angular dependence: shoot the film from all angles, an entire plan on a single Gafchromic™ film, and validate the plan in the same way that the patient receives it

FilmQA Pro™ Software carries a CE Mark

← **Back to partner**



Radiothérapie > AQ film gafchromique

Gafchromic EBT-XD

Le film dosimétrique Gafchromic EBT-XD d'Ashland est conçu pour mesurer les doses absorbées de rayonnements ionisants et convient particulièrement aux photons de haute énergie.

La gamme dynamique de ce film est spécialement conçue pour obtenir les meilleures performances dans la gamme de doses allant de 0,4 à 40 Gy. Il est donc particulièrement adapté aux applications telles que la SRS et la SBRT.

En intégrant un colorant marqueur jaune, associé à un scanner de film RVB et au logiciel FilmQAPro™, le film EBT-XD offre tous les avantages de la dosimétrie multicanal.



Avantages

haute résolution spatiale
se développe en temps réel sans post-traitement
excellente uniformité
presque équivalent au tissu

Caractéristiques

dépendance à l'égard de l'énergie : différence de réponse minimale de 100 keV dans la gamme MV
gamme de doses dynamiques : 0,1 Gy à 200 Gy
gamme de doses optimales : 0,4 Gy à 40 Gy
stable à des températures allant jusqu'à 60°C

Vous souhaitez en savoir plus sur le film de dosimétrie EBT-XD ?

Téléchargez la fiche technique EBT-XD ou contactez l'un de nos spécialistes produits.

Restez au courant des nouvelles sur les produits liés à votre domaine. Accédez au formulaire d'abonnement aux actualités PEO et sélectionnez vos centres d'intérêt.



Radiothérapie > AQ film gafchromique

Film de dosimétrie Gafchromic EBT-4 - Ashland

Gafchromic™ EBT4 est conçu pour la mesure des doses absorbées de rayonnements ionisants. Il est particulièrement adapté aux photons de haute énergie.

La gamme dynamique de ce film est conçue pour obtenir les meilleures performances dans la gamme de doses allant de 0,2 à 10 Gy, ce qui le rend adapté à de nombreuses applications en IMRT, VMAT et curiethérapie.

Pour la mesure de doses nettement supérieures à 10 Gy, il est préférable d'utiliser EBT-XD ou MD-V3, tandis que l'utilisation de HD-V2 est indiquée pour la mesure de doses encore plus élevées.



produit	format du produit	code du produit
EBT4 8x10	8"x10", 25 feuilles par boîte	973857
EBT4P 8x10	8"x10", 25 feuilles par boîte	973858
EBT4 - 1417	14"x17", 10 feuilles par boîte	973882
EBT4 8x10 unlaminated	8"x10", non plastifié 25 feuilles par boîte	973860
EBT4 ballcube I	10 pr	973883
EBT4 ballcube II	10 pr	973884
EBT4 AQA	100 feuilles par boîte	973885
EBT4 mini.ballcube	10 pr	973886
EBT4 XLT	10 pr	973887

Les principales caractéristiques techniques du gafchromic™ EBT4 incluent :

- plage de doses optimale : 0,2 Gy à 10 Gy, mieux adaptée aux applications telles que l'IMRT et le VMAT
- se développe en temps réel sans traitement post-exposition
- dépendance énergétique : différence de réponse minimale de 100 keV dans la gamme MT équivalent proche du tissu
- haute résolution spatiale - peut résoudre des caractéristiques jusqu'à 25 µm ou moins
- nouvelle technologie exclusive intégrant un colorant marqueur dans la couche active
- permet la correction de la non-uniformité en utilisant la dosimétrie multicanal
- diminue la sensibilité aux UV/à la lumière visible
- stable à des températures jusqu'à 60 °C



Radiothérapie > AQ film gafchromique

Film gafchromique LD-V1

Le nouveau film Gafchromic LD-V1 à faible dose d'Ashland offre une résolution spatiale supérieure pour vous donner une confiance accrue lors de votre analyse critique d'assurance qualité. Le LD-V1 remplace le film Gafchromic XR-QA2.

Le film LD-V1 inclut désormais un meilleur contraste et de meilleurs détails d'imagerie. Cela fournit des résultats d'étalonnage instantanés faciles à lire avec des données encore plus faciles à comprendre.

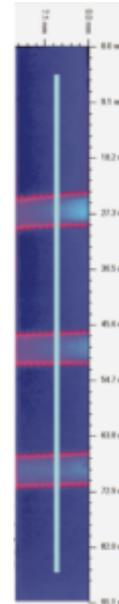
Le lancement de ce film est spécifiquement conçu comme un outil d'assurance qualité pour la radiologie dans un environnement sans processeur. Mais le film convient également aux applications de sécurité aux rayons X, aux tests non destructifs et à l'assurance qualité des machines pour les équipements dentaires.

Ce film est disponible en deux formats : 8"x10" ou 10"x12". Mais vous pouvez couper les feuilles de film en différentes tailles et les manipuler à la lumière de la pièce. Un paquet contient 10 feuilles de film.

- Plage de doses de 2 cGY à 20 cGY
- Plage d'énergie de ~20 keV à ~200 keV.

[Pour plus d'informations, rendez-vous sur le site e notre partenaire !](#)

[Ou pour notre autre film Gafchromic, rendez-vous ici!](#)



Avantages du Gafchromique LD-V1

- Haute résolution spatiale et contraste
- Excellent outil pour les environnements sans processeur
- Film facile à utiliser
- Peut être manipulé à la lumière de la pièce
- Résistant à l'eau
- Aucun composant électronique
- Dispositif médical répertorié par la FDA américaine

Manual

10 sheets per box

10 sheets per box

← Back to partner



Radiothérapie > AQ film gafchromique

Gafchromic XR-M2 Dosimetry Film - Ashland

XRM2 Dosimetry Film is especially developed for mammography QA testing. With a single film strip you can determine the location of the radiation field, light field and the position of the detector with respect to each other.

The film has a dose range of 0,1 cGy to 20 cGy.



XRM2 DOSIMETRY FILM FEATURES

- 50 pc. in a package
- The size of a strip is 1"x3,5" (2,54 cm x 8,89 cm)
- Instant calibration results
- Real-time self-developing
- User-friendly
- Energy range of 20 KVp to 200 KVp

Read more at our [partner's website!](#)

Do you have any questions?

Contact PEO!

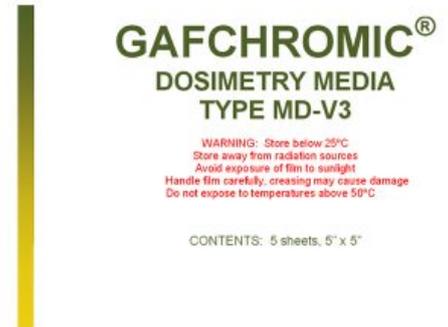
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Radiothérapie > AQ film gafchromique

Gafchromic MD-V3 Radiochromic Film - Ashland

The Gafchromic MD-V3 Radiochromic Film (Ashland) can be used for the measuring absorbed dose of ionizing radiation particularly suited for high-energy photons.



Gafchromic MD-V3 Radiochromic Film features:

- 1 Gy to 100 Gy (dose range)
- no post-exposure treatment, develops in real time
- near tissue equivalent
- no darkroom needed
- mitigates lateral response dependence
- stable at temperatures up to 60°C
- eliminate Newton's rings
- energy-dependence: minimal response difference from 100keV into the MV range
- high spatial resolution
- size: 5" x 5", 12,7 cm x 12,7 cm
- quantity: 5 sheets (box)

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Radiothérapie > AQ film gafchromique

Gafchromic HD-V2 Radiochromic Film - Ashland

Gafchromic HDV2 radiochromic film is designed for quantitative measurement of absorbed doses of high-energy photons. This self-developing film is perfect for a processorless environment.

Because this film doesn't require post-exposure processing, there are no chemicals to dispose of and you don't need a dark room.

To get the most accurate dosimetric measurement with this film, you can combine it with Ashland's FilmQAPro™ software.



This film comes in boxes of 5 pc. with sheets of 20,32 cm x 25,4 cm (8" x 10").

GAFCHROMIC HDV2 RADIOCHROMIC FILM BENEFITS

- Dynamic dose range from 10 Gy to 1.000 Gy
- Develops in real time without any post-exposure treatment
- Near tissue equivalent
- High spatial resolution
- Active coating exposed for detection of low energy photon and electron
- Marker dye in the active layer
- Stable at temperatures up to 60°C
- No dark room needed

If you want to know more about this film, take a look at [our partner's website!](#)

← [Back to partner](#)



Radiothérapie > AQ film gafchromique

Gafchromic EBT-3 Dosimetry Film - Ashland

Ashland designed Gafchromic EBT-3 Dosimetry Film specially for medical physicists and dosimetrists working in radiotherapeutic departments. You use this gafchromic film to measure absorbed doses of ionizing radiation and it's especially suited for high-energy photons.

It perfectly meets the needs of external beam radiotherapy and supports the processor-less environment of the modern hospital. This product is suitable for many applications because of the optimum dose range of 0.2 Gy to 10 Gy.

This gafchromic film is very easy-to-use, especially in combination with [Ashland's FilmQA Pro software](#).



FEATURES & BENEFITS:

- Helps avoid Newton's rings
- Symmetrical
- Optimum dose range of 0.2 Gy to 10 Gy
- Dynamic dose range of 0.1 Gy to 20 Gy
- Near tissue equivalent
- Water resistant (so it can be used with water phantoms)
- User-friendly
- No need for a darkroom
- Density changes stabilise fast
- Withstands temperatures up to 60°C
- Supports all RT technologies
- Large measurement area
- High spatial resolution
- Reduces scattered radiation

If you want to know more about this film

[Go here!](#)

← **Back to partner**



Radiothérapie > AQ film gafchromique

Gafchromic RTQA2 Radiochromic Film - Ashland

RTQA2 film is a self-developing film designed for commissioning and quality assurance of radiotherapeutic modalities.

This is a high performance film with exceptional accuracy and outstanding cost effectiveness. This gafchromic film is real-time self-developing, so your results are available in only seconds (0,5-2.0 sec.). Without need of a darkroom or chemicals. So, this film is not only user-friendly, but also environmentally friendly.

This film is specifically developed for light and radiation field alignment, precision star shots, position verification and autoradiography.



BENEFITS

- Dynamic range from 0,02 Gy to 8 Gy
- Large measurement area
- Real-time self-developing
- Near tissue-equivalent
- High spatial resolution
- Can be handled in room light
- Water resistant (useable with water phantoms for example)
- Withstands temperatures up to 70°C
- No processor or darkroom needed
- Convenient to handle and easy to cut
- Easily noted on with marker

If you want to know more, take a look at our [partner's website!](#)

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Radiothérapie > AQ film gafchromique

Gafchromic EBT-XD Dosimetry Film - Ashland

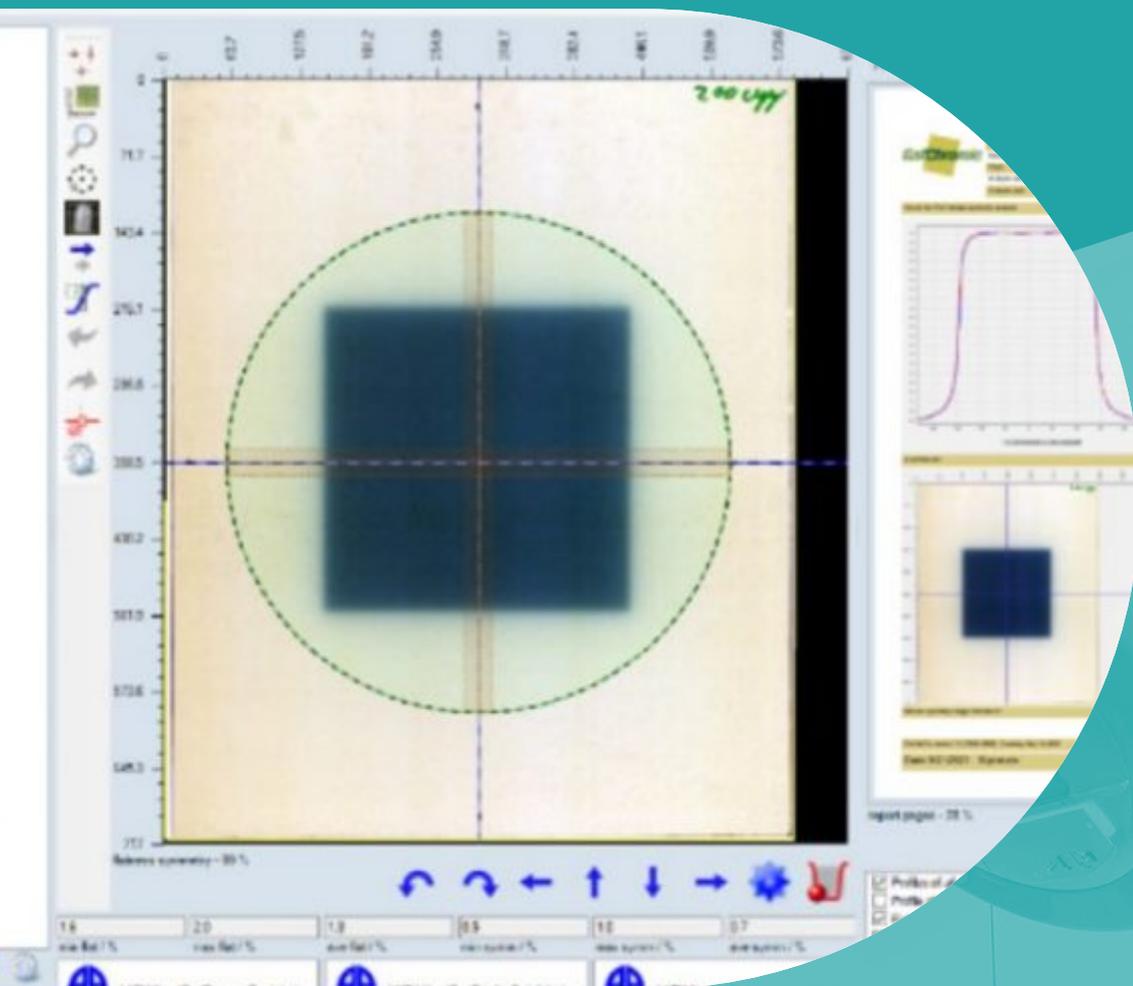
The Gafchromic EBT-XD Dosimetry Film (Ashland) has been developed for the measurement of absorbed doses of ionizing radiation specifically suited for high-energy photons.



Gafchromic EBT-XD Dosimetry Film features:

- energy dependence: minimal response difference from 100keV into the MV range
- high spatial resolution
- develops in real time without post exposure treatment
- dynamic dose range: 0.1 Gy to 200 Gy
- optimum dose range: 0.4 Gy to 40 Gy
- excellent uniformity
- stable at temperatures up to 60°C
- proprietary new technology incorporating a marker dye in the active layer
- enables non uniformity correction by using multichannel dosimetry
- near tissue equivalent
- size: 20,32 cm x 25,4 cm (8" x 10")
- quantity: 25 sheets (box)

FILM GAFCHROMIC

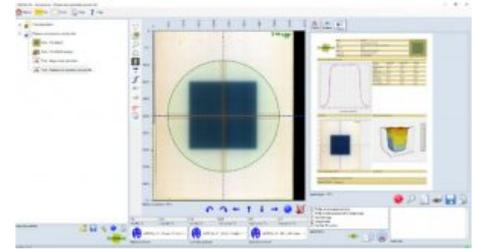




FilmQA Pro™ Software version 7 - Ashland

a sophisticated, quantitative analysis tool for Gafchromic™ Film

FilmQA Pro™ software is a sophisticated, quantitative analysis tool specifically designed to simplify and streamline the intensity-modulated radiation therapy quality assurance (IMRT QA). Our software is also effective for QA of SRS, SBRT and VMAT procedures. It allows you to scan or open images of exposed film and calculate the optimized dose maps.



FilmQA Pro™ software uses proprietary multi-channel dosimetry which eliminates or mitigates film and scanner artifacts by detecting whether errors are being made during scanning. In addition, the software also has the one-scan analysis feature which combines calibration and plan verification in a single scan. The one-scan protocol requires only the patient film, a reference patch, and an unexposed patch. This protocol eliminates error sources such as interscan variability, which enables you to reduce errors to within 2 percent.

With FilmQA Pro™ software, you can get your results in minutes, post-exposure growth no longer is an issue and there is no waiting overnight for changes in the film to diminish. You can do an analysis any time you want, even at a moment's notice. The software delivers gamma passing rates ≥ 95 percent at 2 percent at 2 mm instead of using 3 percent at 3 mm.

key features and benefits

- lateral scan correction: apply a correction to compensation for lateral artifacts that can show in the scan
- new user friendly interface with a quick start menu
- one-scan protocol: fast and efficient method to achieve dose accuracy within 2%
- triple-channel dosimetry: use three color channels to optimize accuracy of dose calculations
- accurately calibrate: an entire lot with just four strips of film using our film-specific mathematical function
- quick-start screen: easily access the module you need at start-up
- dose error recognition: ability to identify accuracy of delivered dose
- superior resolution: get 100 percent of the picture from millions of measurements instead of just 0.1 percent
- no angular dependence: shoot the film from all angles, an entire plan on a single Gafchromic™ film, and validate the plan in the same way that the patient receives it

FilmQA Pro™ Software carries a CE Mark

← **Back to partner**



Radiothérapie > AQ film gafchromique

Gafchromic EBT-XD

Le film dosimétrique Gafchromic EBT-XD d'Ashland est conçu pour mesurer les doses absorbées de rayonnements ionisants et convient particulièrement aux photons de haute énergie.

La gamme dynamique de ce film est spécialement conçue pour obtenir les meilleures performances dans la gamme de doses allant de 0,4 à 40 Gy. Il est donc particulièrement adapté aux applications telles que la SRS et la SBRT.

En intégrant un colorant marqueur jaune, associé à un scanner de film RVB et au logiciel FilmQAPro™, le film EBT-XD offre tous les avantages de la dosimétrie multicanal.



Avantages

- haute résolution spatiale
- se développe en temps réel sans post-traitement
- excellente uniformité
- presque équivalent au tissu

Caractéristiques

- dépendance à l'égard de l'énergie : différence de réponse minimale de 100 keV dans la gamme MV
- gamme de doses dynamiques : 0,1 Gy à 200 Gy
- gamme de doses optimales : 0,4 Gy à 40 Gy
- stable à des températures allant jusqu'à 60°C

Vous souhaitez en savoir plus sur le film de dosimétrie EBT-XD ?

Téléchargez la fiche technique EBT-XD ou contactez l'un de nos spécialistes produits.

Restez au courant des nouvelles sur les produits liés à votre domaine. Accédez au formulaire d'abonnement aux actualités PEO et sélectionnez vos centres d'intérêt.



Radiothérapie > AQ film gafchromique

Film de dosimétrie Gafchromic EBT-4 - Ashland

Gafchromic™ EBT4 est conçu pour la mesure des doses absorbées de rayonnements ionisants. Il est particulièrement adapté aux photons de haute énergie.

La gamme dynamique de ce film est conçue pour obtenir les meilleures performances dans la gamme de doses allant de 0,2 à 10 Gy, ce qui le rend adapté à de nombreuses applications en IMRT, VMAT et curiethérapie.

Pour la mesure de doses nettement supérieures à 10 Gy, il est préférable d'utiliser EBT-XD ou MD-V3, tandis que l'utilisation de HD-V2 est indiquée pour la mesure de doses encore plus élevées.



produit	format du produit	code du produit
EBT4 8x10	8"x10", 25 feuilles par boîte	973857
EBT4P 8x10	8"x10", 25 feuilles par boîte	973858
EBT4 - 1417	14"x17", 10 feuilles par boîte	973882
EBT4 8x10 unlaminated	8"x10", non plastifié 25 feuilles par boîte	973860
EBT4 ballcube I	10 pr	973883
EBT4 ballcube II	10 pr	973884
EBT4 AQA	100 feuilles par boîte	973885
EBT4 mini ballcube	10 pr	973886
EBT4 XLT	10 pr	973887

Les principales caractéristiques techniques du gafchromic™ EBT4 incluent :

- plage de doses optimale : 0,2 Gy à 10 Gy, mieux adaptée aux applications telles que l'IMRT et le VMAT
- se développe en temps réel sans traitement post-exposition
- dépendance énergétique : différence de réponse minimale de 100 keV dans la gamme MT équivalent proche du tissu
- haute résolution spatiale - peut résoudre des caractéristiques jusqu'à 25 µm ou moins
- nouvelle technologie exclusive intégrant un colorant marqueur dans la couche active
- permet la correction de la non-uniformité en utilisant la dosimétrie multicanal
- diminue la sensibilité aux UV/à la lumière visible
- stable à des températures jusqu'à 60 °C



Radiothérapie > AQ film gafchromique

Film gafchromique LD-V1

Le nouveau film Gafchromic LD-V1 à faible dose d'Ashland offre une résolution spatiale supérieure pour vous donner une confiance accrue lors de votre analyse critique d'assurance qualité. Le LD-V1 remplace le film Gafchromic XR-QA2.

Le film LD-V1 inclut désormais un meilleur contraste et de meilleurs détails d'imagerie. Cela fournit des résultats d'étalonnage instantanés faciles à lire avec des données encore plus faciles à comprendre.

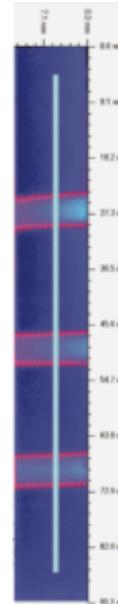
Le lancement de ce film est spécifiquement conçu comme un outil d'assurance qualité pour la radiologie dans un environnement sans processeur. Mais le film convient également aux applications de sécurité aux rayons X, aux tests non destructifs et à l'assurance qualité des machines pour les équipements dentaires.

Ce film est disponible en deux formats : 8"x10" ou 10"x12". Mais vous pouvez couper les feuilles de film en différentes tailles et les manipuler à la lumière de la pièce. Un paquet contient 10 feuilles de film.

- Plage de doses de 2 cGY à 20 cGY
- Plage d'énergie de ~20 keV à ~200 keV.

[Pour plus d'informations, rendez-vous sur le site e notre partenaire !](#)

[Ou pour notre autre film Gafchromic, rendez-vous ici!](#)



Avantages du Gafchromique LD-V1

- Haute résolution spatiale et contraste
- Excellent outil pour les environnements sans processeur
- Film facile à utiliser
- Peut être manipulé à la lumière de la pièce
- Résistant à l'eau
- Aucun composant électronique
- Dispositif médical répertorié par la FDA américaine

Manual

10 sheets per box

10 sheets per box

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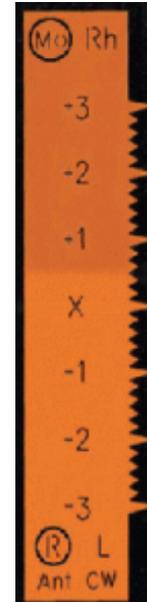


Radiothérapie > AQ film gafchromique

Gafchromic XR-M2 Dosimetry Film - Ashland

XRM2 Dosimetry Film is especially developed for mammography QA testing. With a single film strip you can determine the location of the radiation field, light field and the position of the detector with respect to each other.

The film has a dose range of 0,1 cGy to 20 cGy.



XRM2 DOSIMETRY FILM FEATURES

- 50 pc. in a package
- The size of a strip is 1"x3,5" (2,54 cm x 8,89 cm)
- Instant calibration results
- Real-time self-developing
- User-friendly
- Energy range of 20 KVp to 200 KVp

Read more at our [partner's website!](#)

Do you have any questions?

Contact PEO!

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Imagerie médicale / Radiologie › Film Gafchromic

Gafchromic XR-CT2 Dosimetry Film - Ashland

The Gafchromic XR-CT2 Dosimetry Film (Ashland) has been designed for the measurement of radiation beam slice width on CT scanners in real time.



Gafchromic XR-CT2 Dosimetry Film features:

- dose range 0.1 cGy to 20 cGy
- self-developing in real time
- cost effective
- excellent for CT QA
- easy to use
- high data integrity
- improved contrast
- 50 sheets per package
- size: 3/4" x 5"

[Gafchromic XR Film Ashland](#)

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Imagerie médicale / Radiologie > Film Gafchromic

Gafchromic XR-RV3 Dosimetry Film - Ashland

The Gafchromic XR-RV3 Dosimetry Film (Ashland) is used to measure and record patient skin exposure during interventional procedures where a high degree of precision in measuring skin dose is mainly not required.



Gafchromic XR-RV3 Dosimetry Film features:

- available with comparator strip
- can be used with scanner or densitometer

[Gafchromic XR Film Ashland](#)

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Radiothérapie > AQ film gafchromique

Gafchromic HD-V2 Radiochromic Film - Ashland

Gafchromic HDV2 radiochromic film is designed for quantitative measurement of absorbed doses of high-energy photons. This self-developing film is perfect for a processorless environment.

Because this film doesn't require post-exposure processing, there are no chemicals to dispose of and you don't need a dark room.

To get the most accurate dosimetric measurement with this film, you can combine it with Ashland's FilmQAPro™ software.



This film comes in boxes of 5 pc. with sheets of 20,32 cm x 25,4 cm (8" x 10").

GAFCHROMIC HDV2 RADIOCHROMIC FILM BENEFITS

- Dynamic dose range from 10 Gy to 1.000 Gy
- Develops in real time without any post-exposure treatment
- Near tissue equivalent
- High spatial resolution
- Active coating exposed for detection of low energy photon and electron
- Marker dye in the active layer
- Stable at temperatures up to 60°C
- No dark room needed

If you want to know more about this film, take a look at [our partner's website!](#)

LOGICIEL

Calibration

Interactive Peak Analysis Results Display

Hardware Control

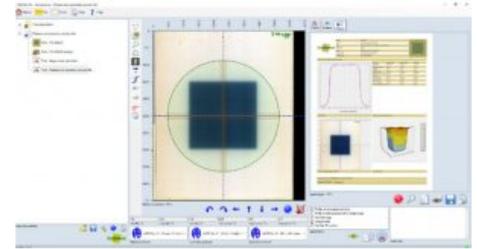
Automation



FilmQA Pro™ Software version 7 - Ashland

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With FilmQA Pro™ software, you can get your results in minutes, post-exposure growth no longer is an issue and there is no waiting overnight for changes in the film to diminish. You can do an analysis any time you want, even at a moment's notice. The software delivers gamma passing rates ≥ 95 percent at 2 percent at 2 mm instead of using 3 percent at 3 mm.

key features and benefits

- lateral scan correction: apply a correction to compensation for lateral artifacts that can show in the scan
- new user friendly interface with a quick start menu
- one-scan protocol: fast and efficient method to achieve dose accuracy within 2%
- triple-channel dosimetry: use three color channels to optimize accuracy of dose calculations
- accurately calibrate: an entire lot with just four strips of film using our film-specific mathematical function
- quick-start screen: easily access the module you need at start-up
- dose error recognition: ability to identify accuracy of delivered dose
- superior resolution: get 100 percent of the picture from millions of measurements instead of just 0.1 percent
- no angular dependence: shoot the film from all angles, an entire plan on a single Gafchromic™ film, and validate the plan in the same way that the patient receives it

FilmQA Pro™ Software carries a CE Mark

INDICATEURS DE STÉRILISATION PAR IRRADIATION



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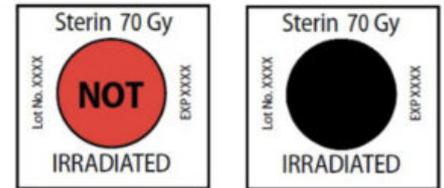


Nuclear Medicine > Indicateurs de stérilisation par irradiation

Sterin Insect Irradiation Indicators - Ashland

Sterin Insect Irradiation indicators provide positive, visual verification of irradiation. The indicators are manufactured using Gafchromic film.

Ashland designed the indicators for the Sterile Insect Technique (SIT) program to provide visual verification of irradiation.



HOW DOES IT WORK?

Sterin shows whether a container with insects has been irradiated when it's attached to the container. Before the insects are radiated, the indicator reads "NOT IRRADIATED", but after the insects are radiated, it reads "RADIATED".

One box of Sterin, contains 500 indicators and has a shelf life of 3 years.

BENEFITS

- Film-based indicator
- Easy to read
- Color-blind friendly
- Indicators can be stored at room temperature
- Dispenser box keeps indicators protected from room light
- Sustainable packaging (boxes can be recycled)

Sterin is available for 4 different doses: 70 Gy, 100 Gy, 125 Gy, and 145 Gy.

If you have any questions about this product, go to [our partner's website!](#)

PROTONS



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Radiothérapie > AQ film gafchromique

Gafchromic HD-V2 Radiochromic Film - Ashland

Gafchromic HDV2 radiochromic film is designed for quantitative measurement of absorbed doses of high-energy photons. This self-developing film is perfect for a processorless environment.

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To get the most accurate dosimetric measurement with this film, you can combine it with Ashland's FilmQAPro™ software.



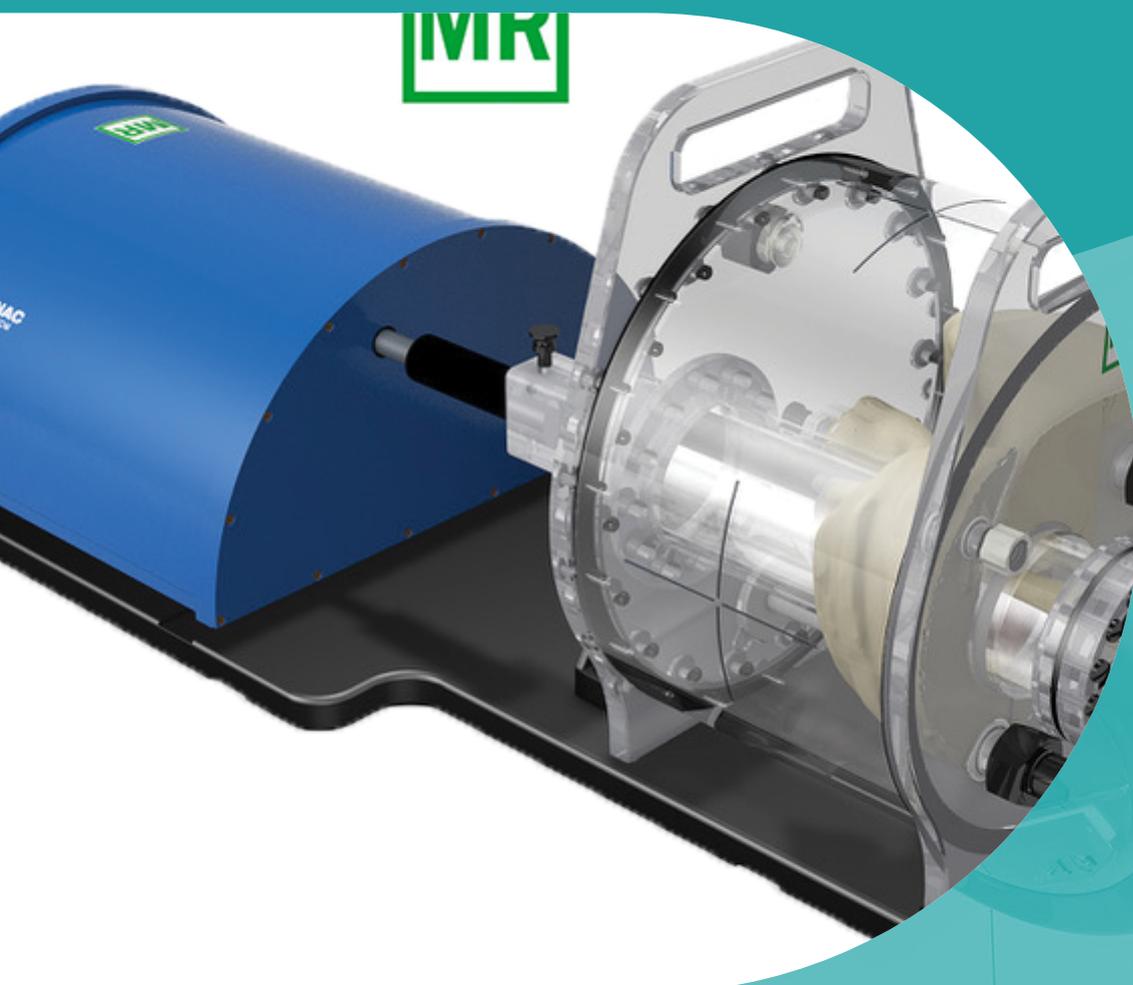
This film comes in boxes of 5 pc. with sheets of 20,32 cm x 25,4 cm (8" x 10").

GAFCHROMIC HDV2 RADIOCHROMIC FILM BENEFITS

- Dynamic dose range from 10 Gy to 1.000 Gy
- Develops in real time without any post-exposure treatment
- Near tissue equivalent
- High spatial resolution
- Active coating exposed for detection of low energy photon and electron
- Marker dye in the active layer
- Stable at temperatures up to 60°C
- No dark room needed

If you want to know more about this film, take a look at [our partner's website!](#)

FANTÔMES D'AQ



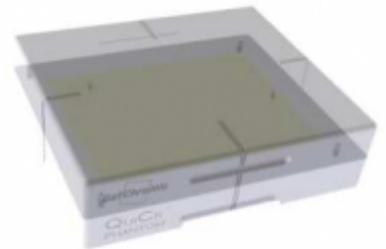
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Radiothérapie > Fantômes d'AQ

Gafchromic Quick Phantom - Ashland

The Gafchromic Quick Phantom (Ashland) is used for accurate and fast radiation therapy QA procedures. The device works with Gafchromic EBT-3 film.



Gafchromic Quick Phantom features:

- dimensions: 29 x 32 x 5 cm³
- two-pin indexing bar
- provides accurate, quick and repeatable positioning of the phantom on both treatment couches and CT
- phantom body: two slabs of CIRS Plastic Water water-equivalent to within 1% from 150 keV to 25
- accurate and quick setup

SYSTÈMES DE MESURE AQ

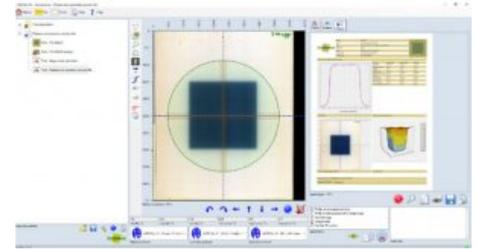




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