

# Gafchromic™ RTQA2 film

## State-of-the-art processor-less film for QA and commissioning of equipment in the contemporary RT environment

### A high performance processor-less film for quality assurance, exceptional accuracy with ease of use, and featuring outstanding cost effectiveness

Gafchromic RTQA2 quality assurance film has been designed by leading radiochromic film scientists and provides state-of-the-art results in radiotherapy environments, while tapping all the exciting advantages of processor-less technology.

#### Gafchromic RTQA2 QA film Technical Benefits:

- Developed specifically for:
  - Light field alignment
  - Radiation field alignment
  - Precision star shots
  - Position verification for HDR
  - Autoradiography of implantable seeds, plaques and other sources
- Dynamic range from 0.02 Gy to 8 Gy
- Large measurement area
- Self develops in real time
  - And requires no processing!
- Near tissue-equivalent
- High spatial resolution
- Can be handled in room light
- Water resistant, water immersible (usable with water phantoms)
- Withstands temperatures up to 70° C
- Now with improved indoor lighting resistance

#### Gafchromic RTQA2 quality assurance film Economic Benefits:

- No processor required – no darkroom!
  - Eliminates processing discrepancies
  - Eliminates chemical waste
  - Environmentally friendly
- Convenient to handle and easy to cut (cut and shape the film to your needs)

- Easily noted on with marker pen (notes easily erased if necessary)
- Economical and competitive pricing
- Available in four standard formats (custom sizes also available)

#### Outstanding Performance

Gafchromic RTQA2 radiotherapy film is an excellent, hassle-free tool for the contemporary and processor-less environment. Just position and shoot. With real-time self-developing, your results are available in seconds! No darkroom or chemicals are needed.

After exposure, if the light field is not aligned with the radiation field, the discrepancy is visible immediately. Simply adjust the field accordingly and move on. In most cases, a second exposure is not required.

Alignment can be achieved in an exceedingly short time. Gafchromic RTQA2 radiotherapy film can even be observed through the monitor, and evaluated while it develops! Saves time and saves money. Less film is used for each alignment. Saves even more money because the film can be handled in room light, and can be easily cut to the exact size you need. Gafchromic RTQA2 film is excellent for autoradiography of implantable seeds, plaques and other sources. It's a versatile time-saving and cost efficient technology.

#### Configuration and Structure of Gafchromic RTQA2 film

Gafchromic RTQA2 film is made by laminating an active layer between two polyester layers. The polyester surface makes an exceptionally robust product and allows water immersion.

#### Gafchromic RTQA2 film features a precision 4-layer laminated composition

Yellow Polyester - 97 microns
Pressure Sensitive Adhesive - 20 microns
Active Layer - 17 microns
White Polyester - 97 microns

*Approximate thicknesses - Actual values may vary slightly.*

**ASHLAND**®

With good chemistry great things happen.™

## Global Headquarters

Ashland Inc.  
50 East RiverCenter Blvd.  
Covington, KY 41012 USA  
Tel: +1 859 815 3333

Ashland Specialty Ingredients  
8145 Blazer Drive  
Wilmington, DE 19808 USA  
Tel: +1 800 345 0447  
Fax: +1 302 992 7287

## Regional Sales Offices

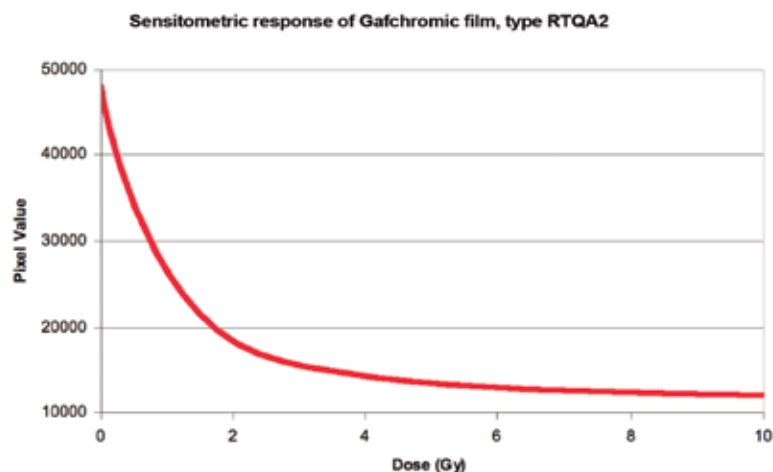
North America  
Wayne, NJ USA  
Tel: +1 800 622 4423  
Fax: +1 973 628 3016

[ashland.com](http://ashland.com)

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With processor-less technology Gafchromic™ RTQA2 film delivers cost effectiveness, ease-of-use and more convenience than conventional film!



*NOTE: The response of Gafchromic RTQA2 radiotherapy film is dependent upon factors specific to the facility such as the energy spectrum of the radiation source, the characteristics of the densitometer, film scanner or other means of measurement and the elapsed time between exposure and measurement etc. Therefore, the user should determine the dose-density response under the conditions pertaining to the user's facility and measurement protocol. Since the absolute response of Gafchromic RTQA film may vary from lot to lot, the user should re-measure response when changing to a new lot number.*

## Available in four standard formats

- Gafchromic RTQA2-1010 film for routine light field alignment tests – 10" x 10" in packages of 25 sheets
- Gafchromic RTQA2-1010P (pre- printed scale on film) for light field alignment tests – 10" x 10" in packages of 25 sheets
- Gafchromic RTQA2-1417 film for larger light field alignment tests – 14" x 17" in packages of 10 sheets
- Gafchromic RTQA2-111 film for brachytherapy light source positioning – 1.25" x 11" in packages of 25 strips

Custom sizes are provided by special order.

## Gafchromic RTQA2 film strips for HDR applications

Gafchromic RTQA2-111 film strips are designed for HDR positioning verification. They are designed for use within a phantom, or taped directly under a catheter. Gafchromic RTQA2-111 film strips provide excellent results when the catheter position is marked and then the autoradiographic image is checked against the marks. Key advantages of the Gafchromic RTQA2-111 film strips are their stability and alignment. They eliminate concerns about film movement inside a ready pack and thus increase the accuracy of measurement.

With dwell times between 0.5 second to 2.0 seconds (depending on the source), Gafchromic RTQA2-111 film strips exhibit sharp images, and clearly show source positions.

Call today for more information about practical applications of Gafchromic RTQA2 film.