

Product Description

These radiochromic film dosimeters are assembled and packaged by GEX using Gafchromic™ HD-V2 film with an overlay providing serialization for ease of handling and traceability. The product may be used to add capability to existing optical dosimetry systems capable of measuring in the visible spectrum.

Intended Use: For low absorbed-dose measurements as a component of a routine dosimetry system for use in radiation processing applications and research.

Instructions

- Receive/Inspect:** Inspect shipping box and verify irreversible temperature label inside box; if label indicates exposure $\geq 47.5^\circ\text{C}$, contact GEX customer service before use. See Figure 2.
- Calibrate:** See guidance in specification sheet
- Place/Record ID:** Place a packaged or loose dosimeter in the process for irradiation. Note the unique printed serial number and batch ID or scan QR code for traceability if desired.
- Irradiate:** Expose to planned radiation dose.
- Wait required time (time control):** measure at consistent post-irradiation time; suggestion is 1 to 24 hours post irradiation (user must validate).
- Prepare to measure:** Inspect the film surface prior to measurement. Clean dosimeters using a clean, lint-free wipe. Set spectrophotometer to select fixed wavelength used in calibration.
- Measure:** Remove any packaged dosimeter from the pouch before measurement. Insert the dosimeter into a specialized holder (designed for the dosimeter geometry) with the printed serial number facing the same direction used in calibration (i.e., directional effects are possible). Record the measurement and calculate the dose based on the user's calibration of the response function.
- Storage/Disposal:** Dispose of used dosimeters in general waste (no MSDS required) or store them in a controlled environment for later measurement.

GEX is pleased to provide a high level of service and support. Send a request by email to and expect a generally prompt reply.

Contact orders@gexcorp.com and reference the GEX sales order number or your company purchase order number for questions about your order of this product.

For additional guidance or instruction, contact GEX Support team at support@gexcorp.com.

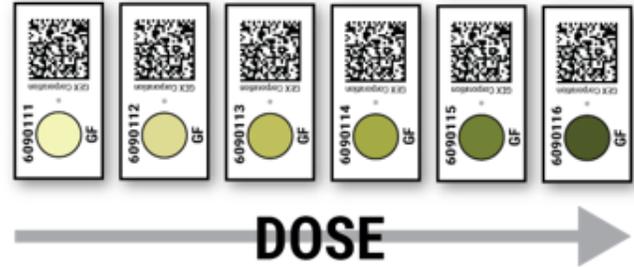


Figure 1: Visual representation – may not match actual color

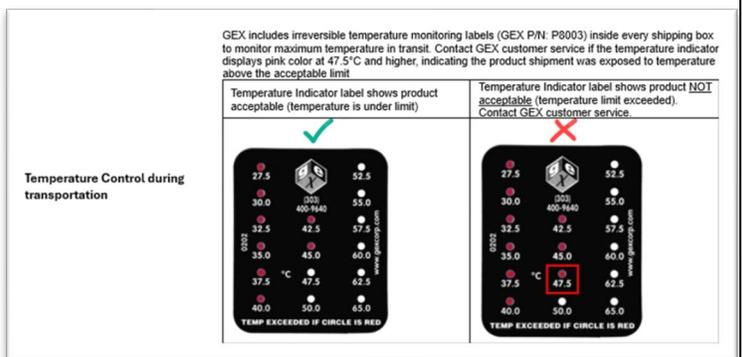


Figure 2: Temperature labels accompany each shipment

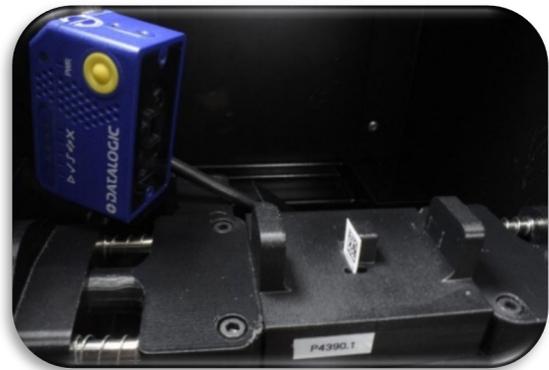


Figure 3: Dosimeter inserted for measurement in GEX Dosimetry System holder

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